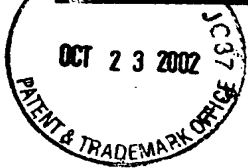


APPROVED	O.G. FIG. 1	
BY	CLASS	SUBCLASS
DRAFTSMAN	702	160
CRAFTSMAN		

Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.
09/642,865; Atty. Docket No.
P00663/70022

6611789

OCT 23 2002



1/42

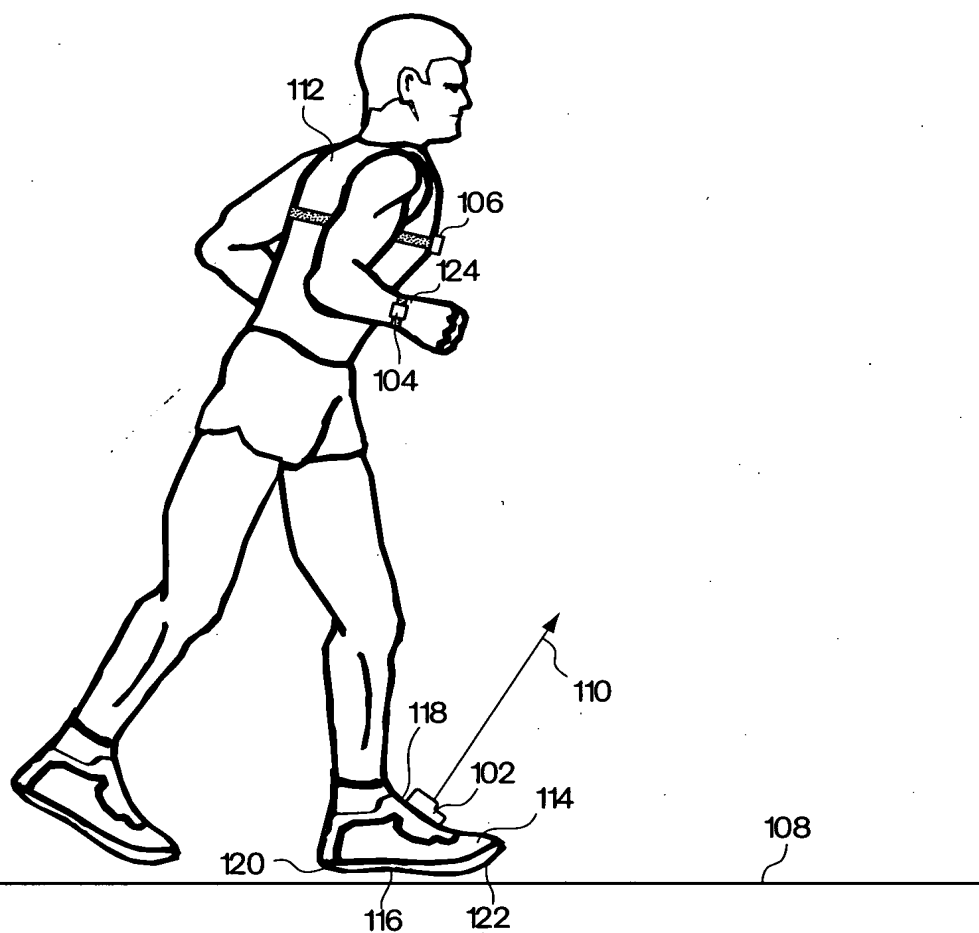
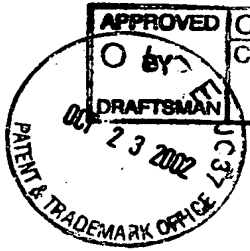


Fig. 1



APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
DRAFTSMAN	

Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

2/42

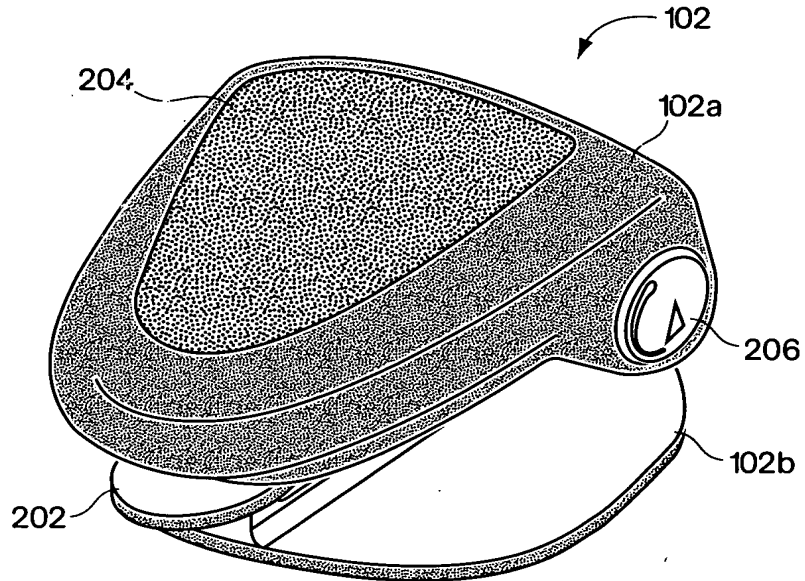


Fig. 2A

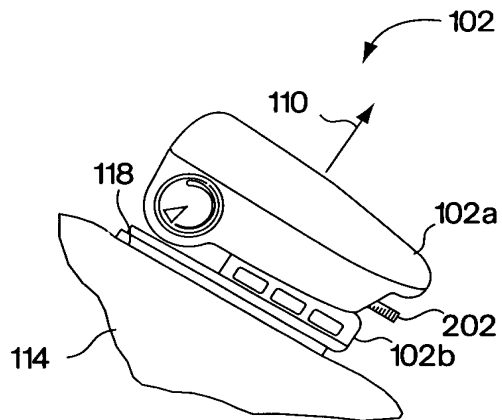
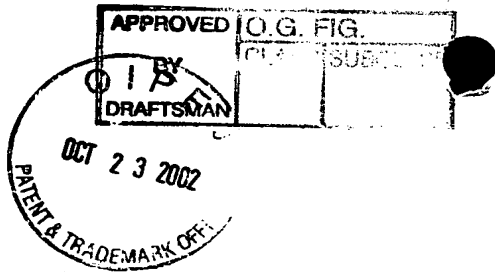


Fig. 2B



Monitoring of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

3/42

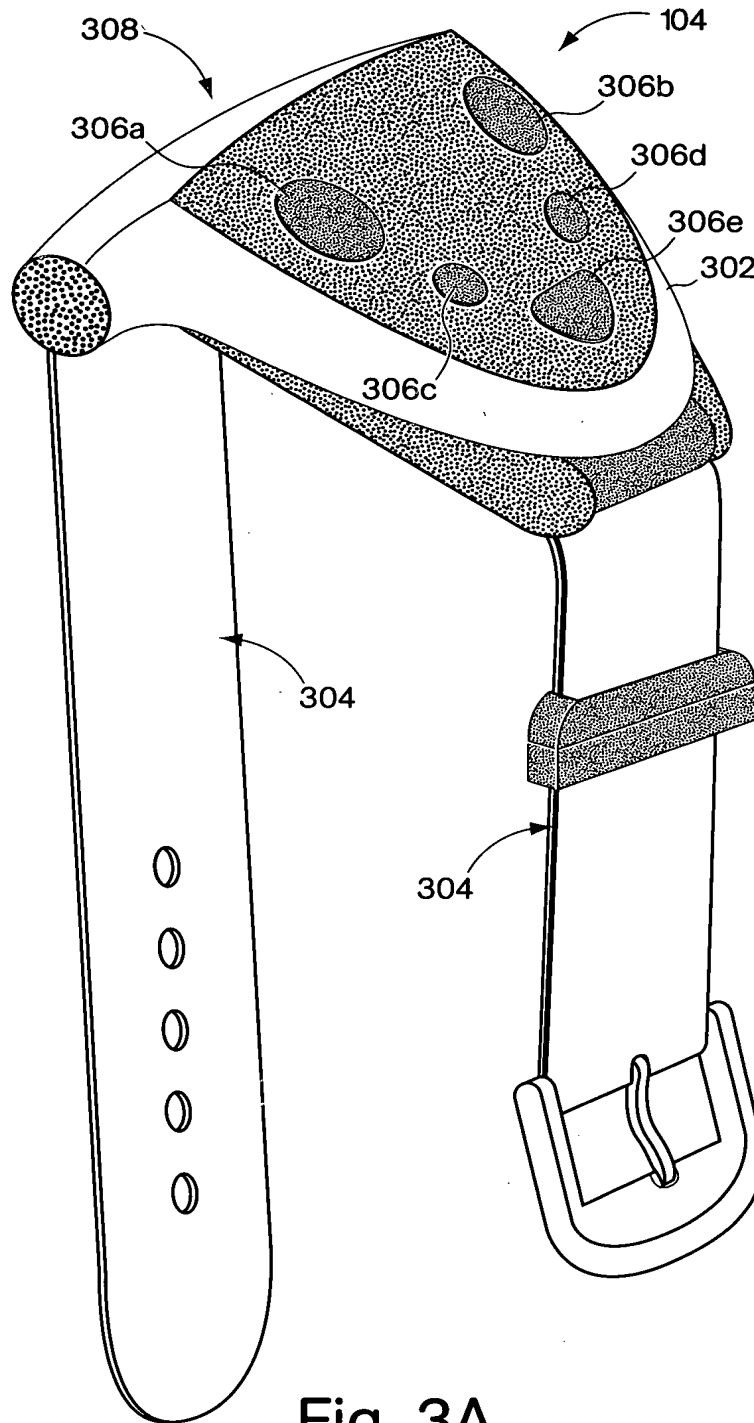


Fig. 3A

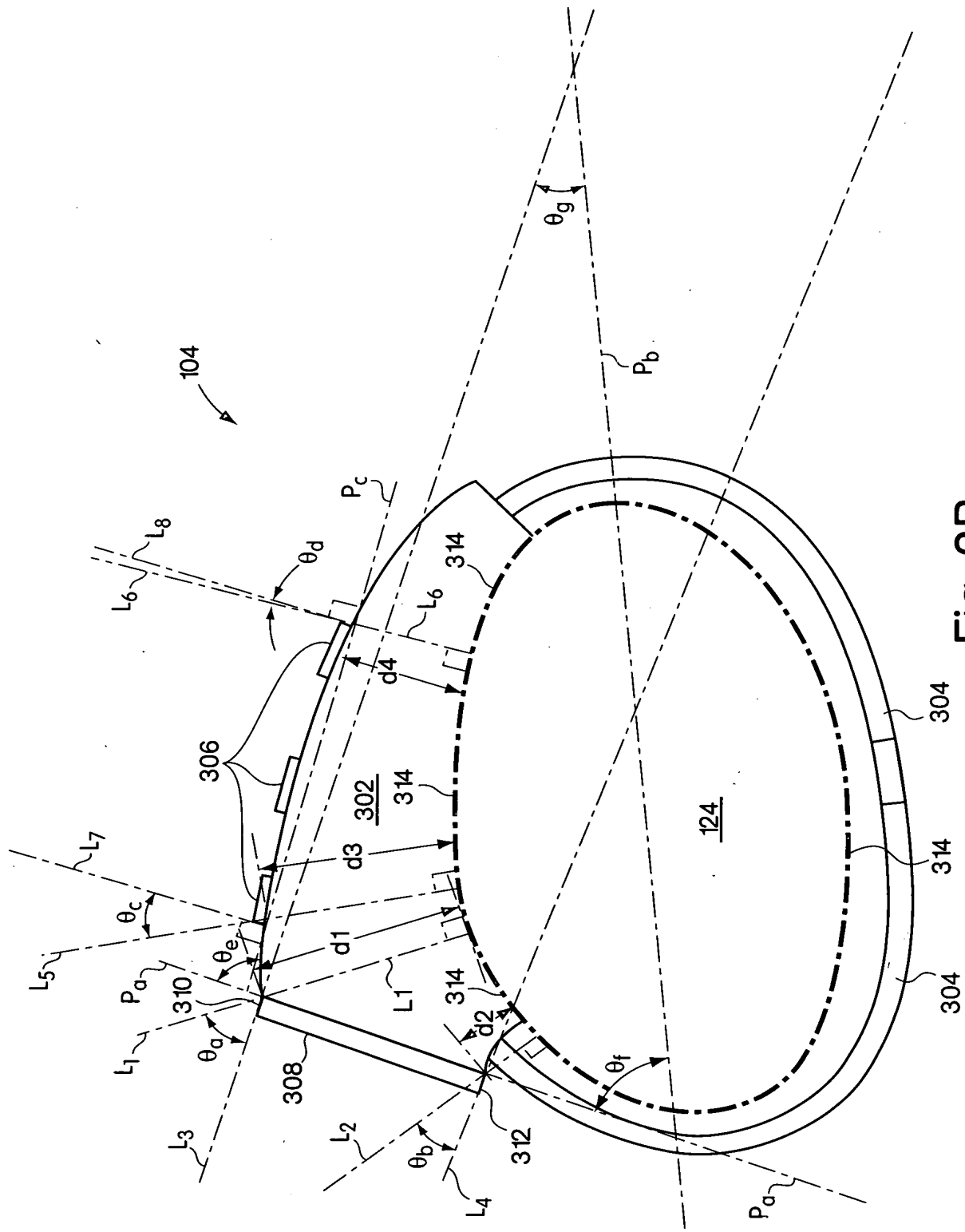
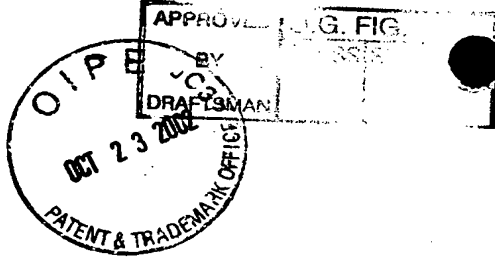


Fig. 3B



5/42

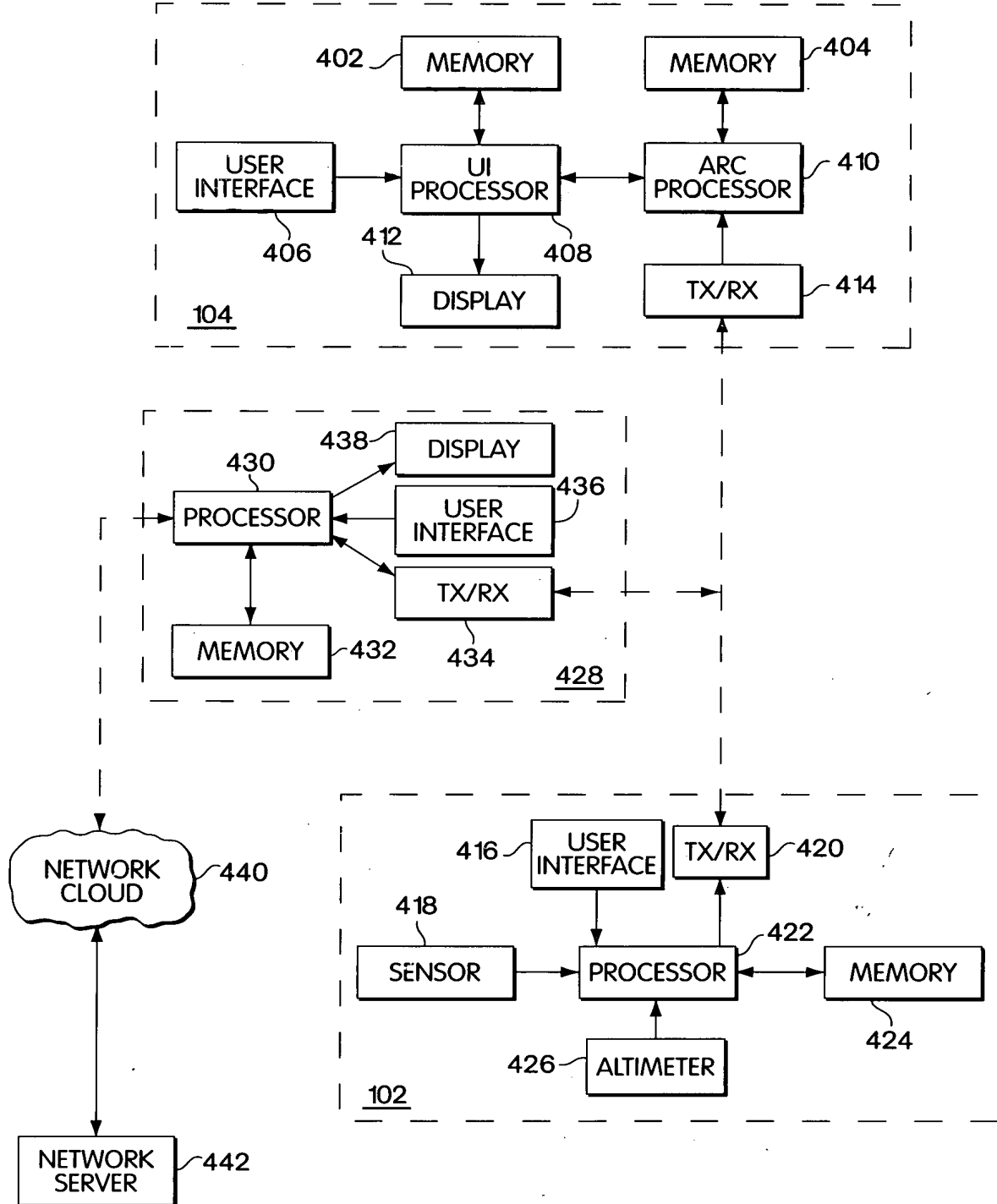


Fig. 4



6/42

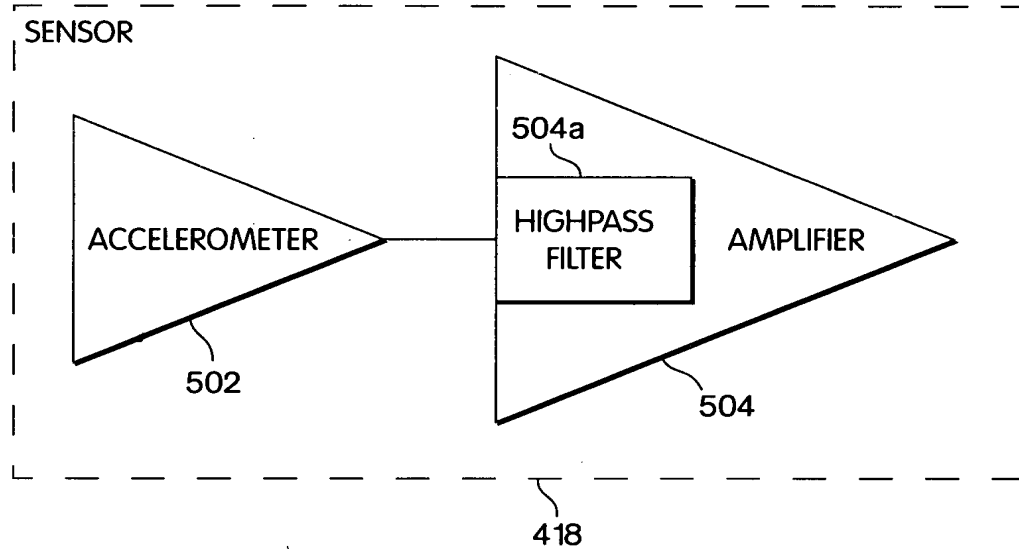


Fig. 5

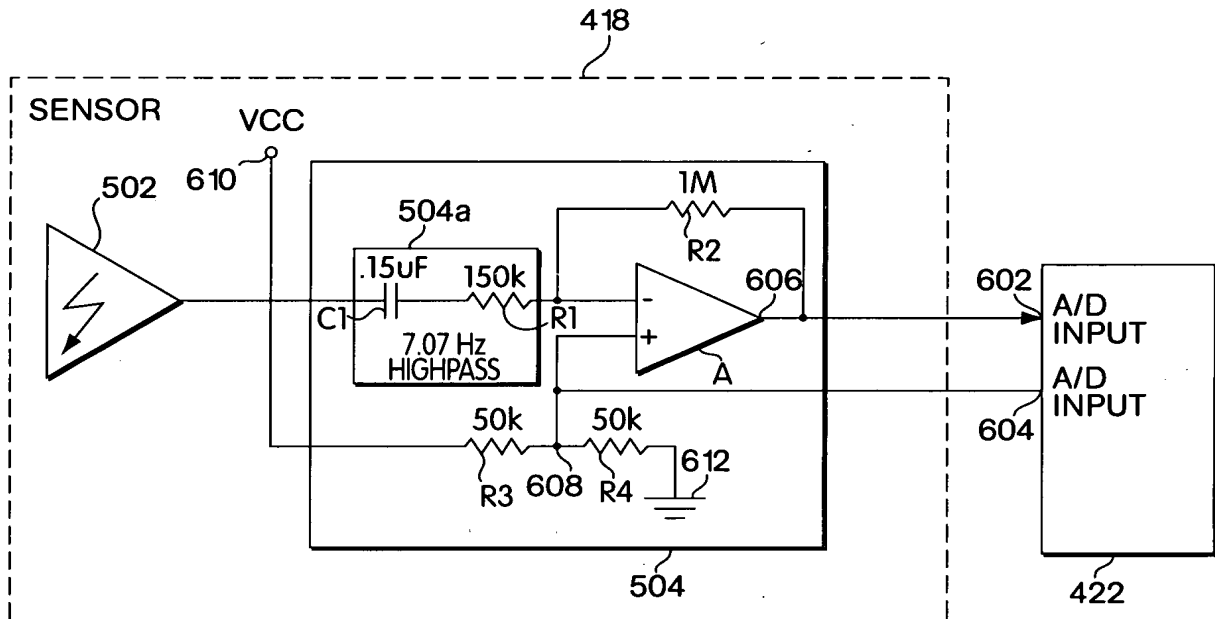


Fig. 6

7/42

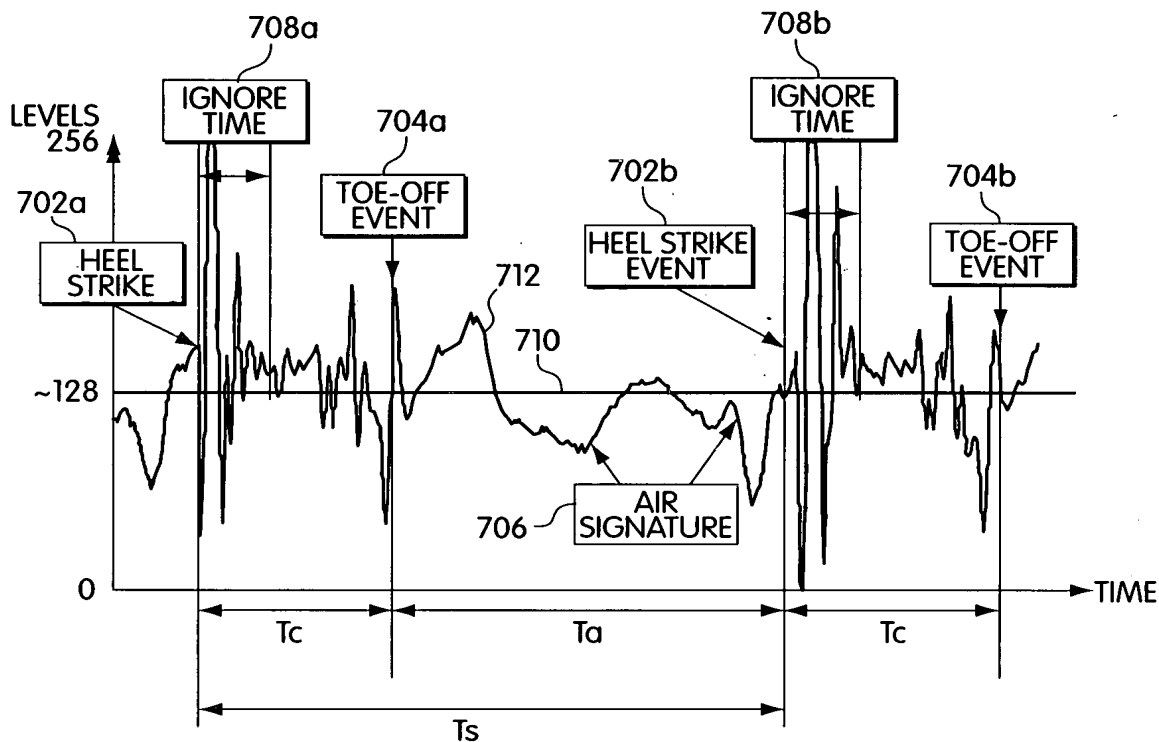


Fig. 7

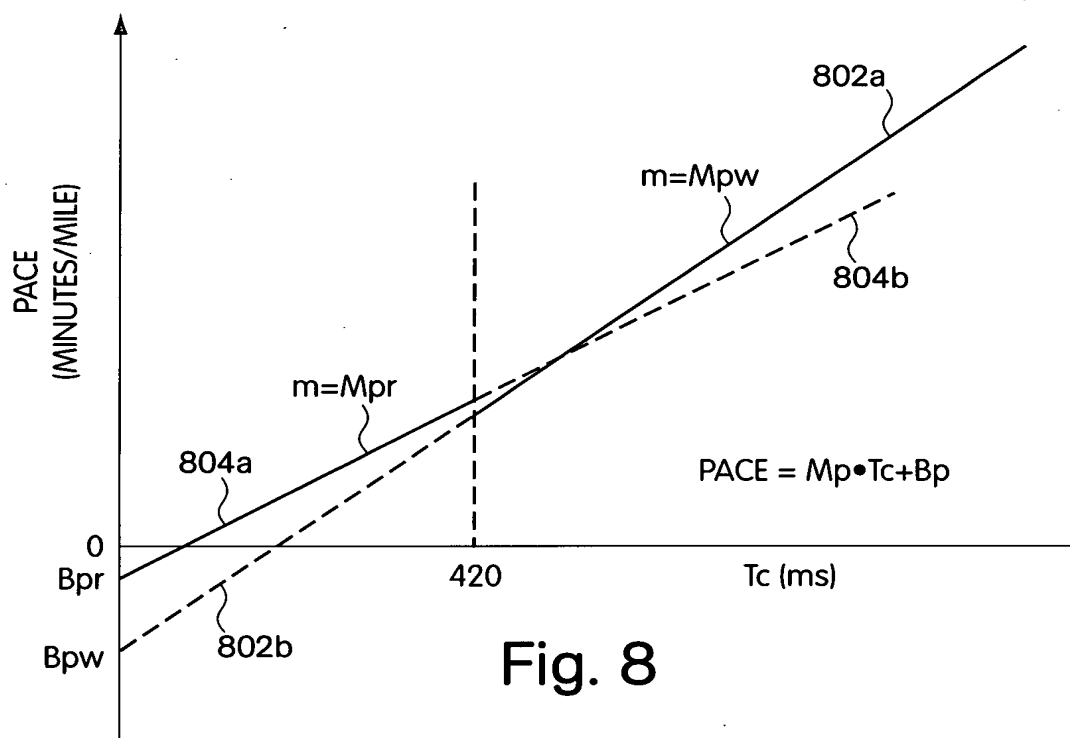
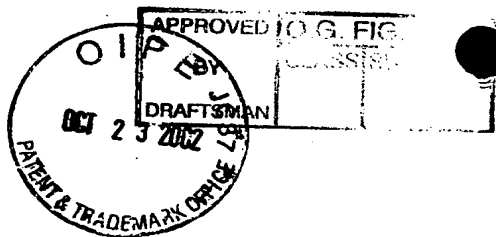
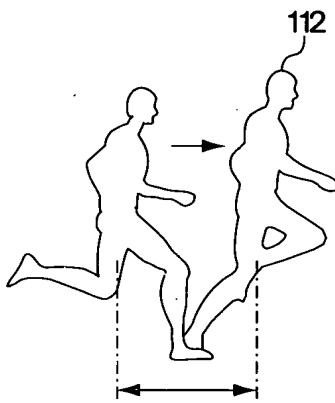


Fig. 8



8/42



$$\text{STEP LENGTH (L}_s\text{)} = T_c \cdot \text{SPEED}$$

Fig. 9

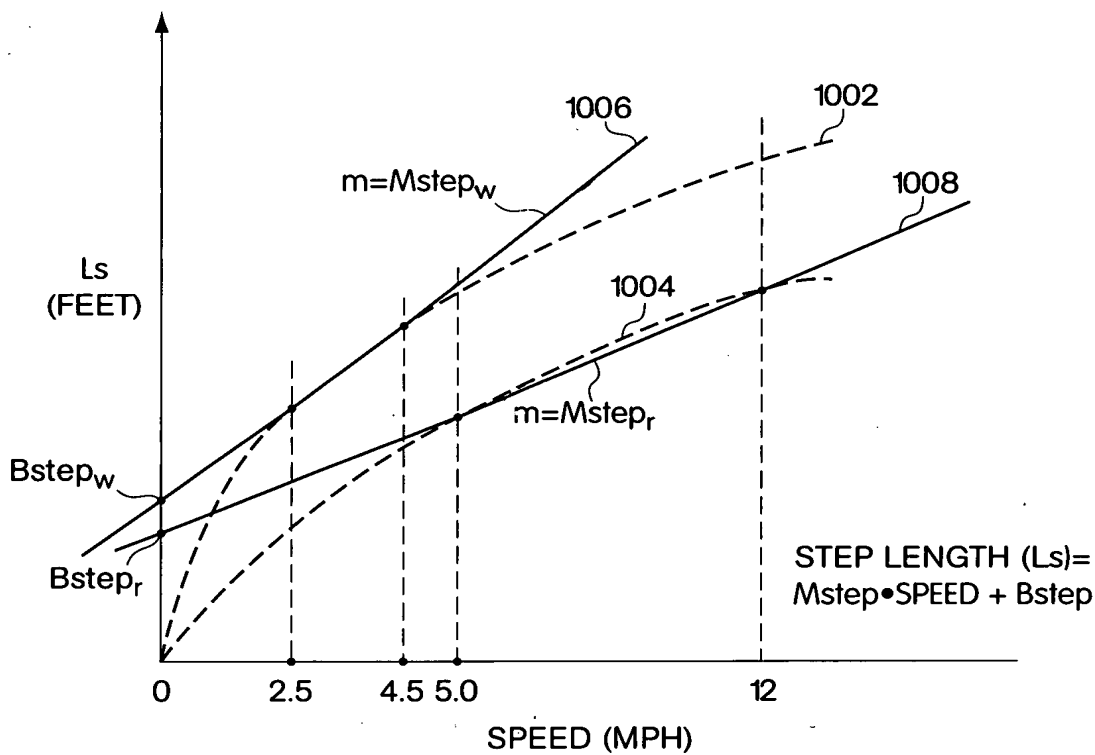


Fig. 10

9/42

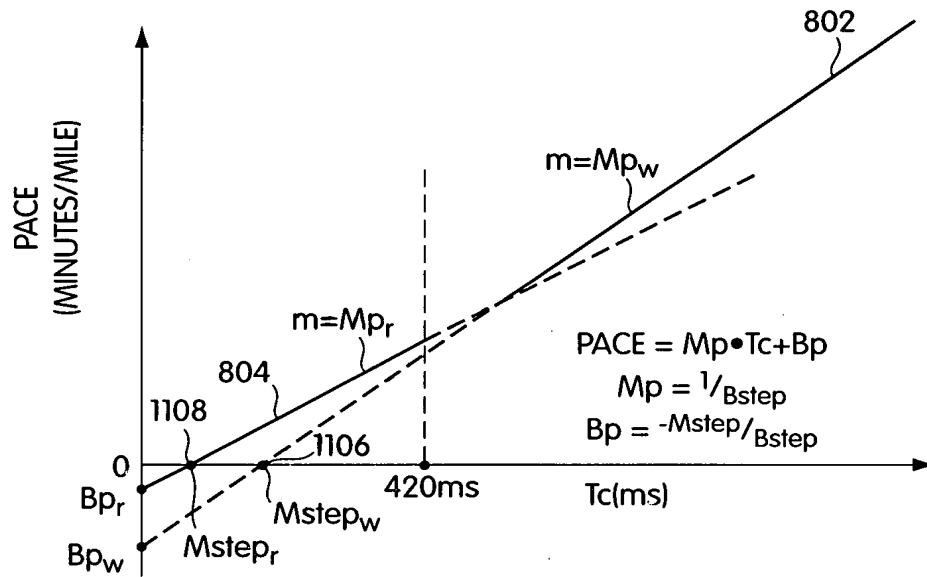


Fig. 11

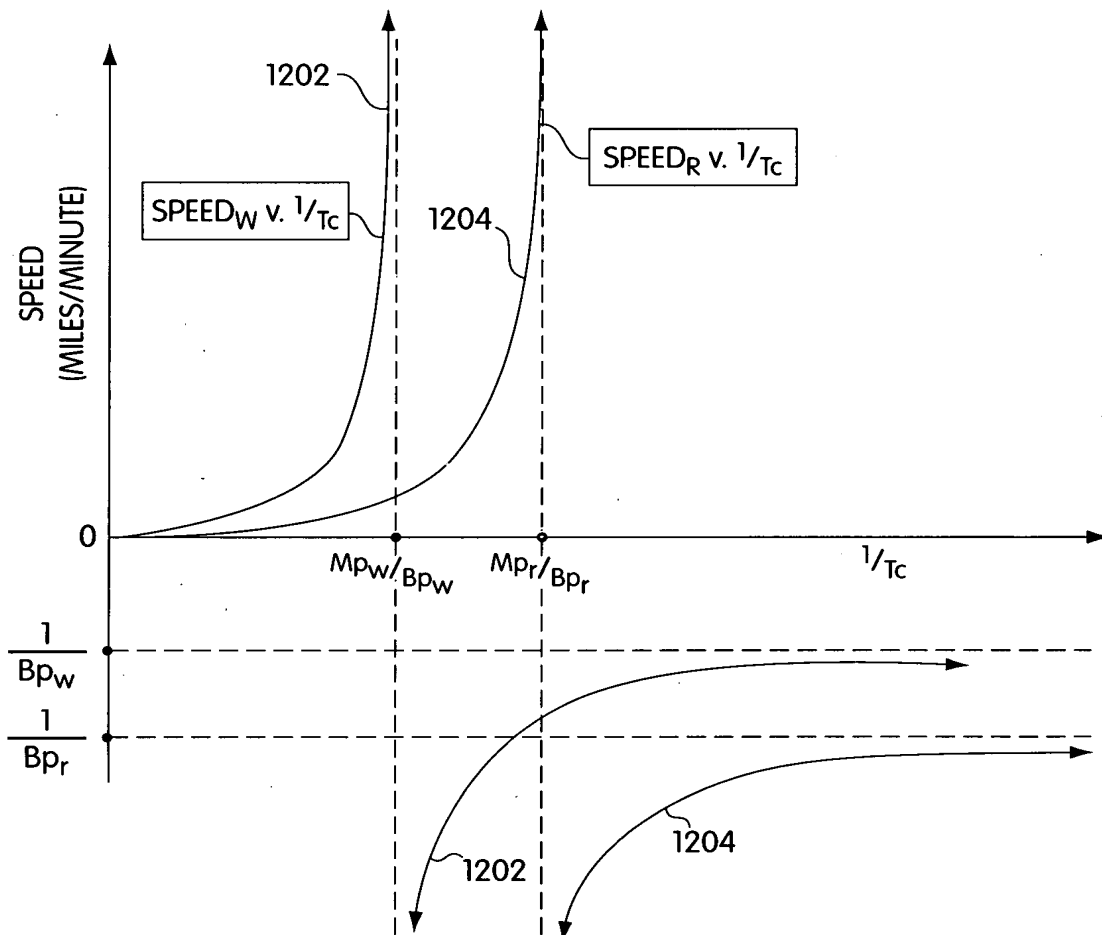


Fig. 12

10/42

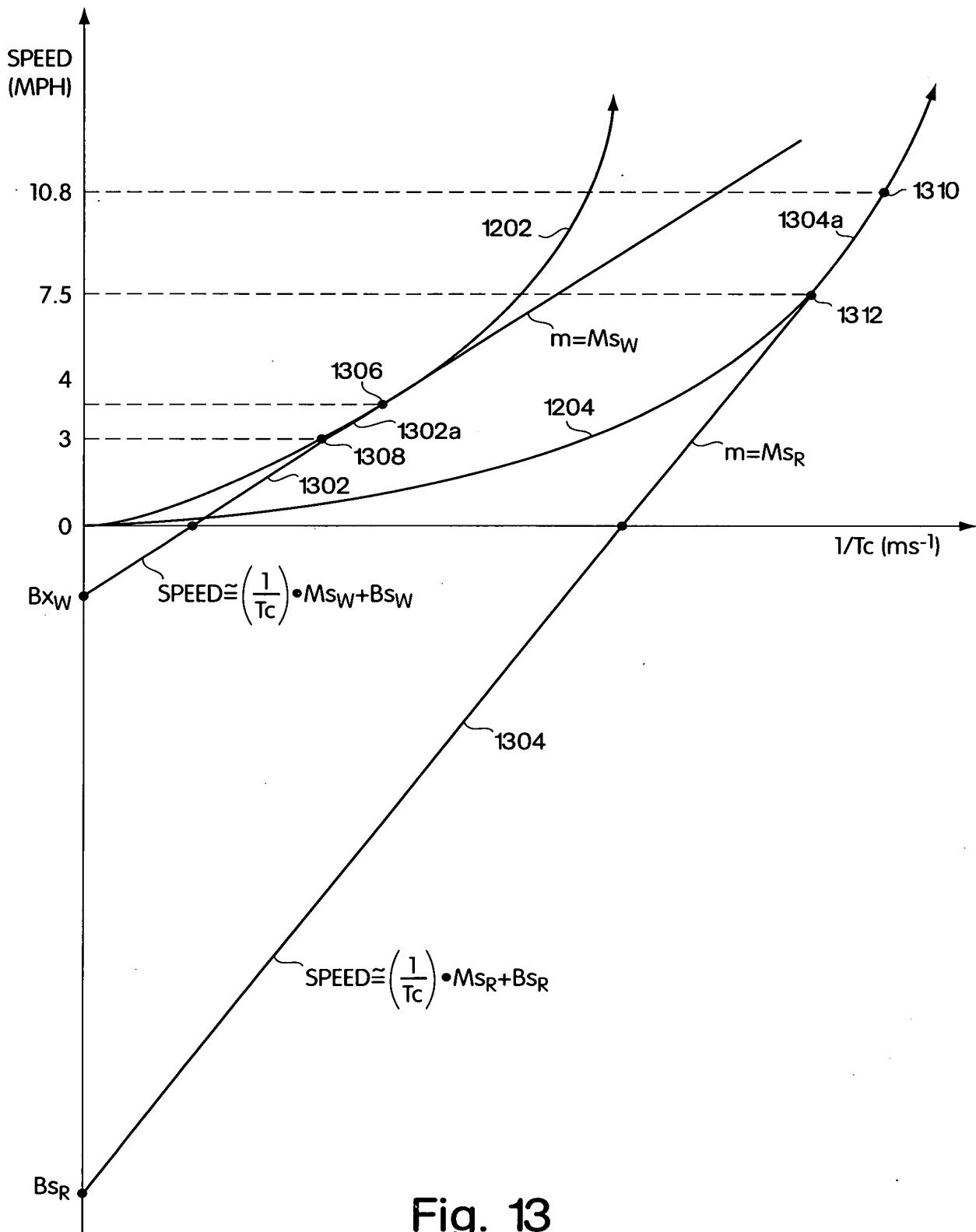


Fig. 13

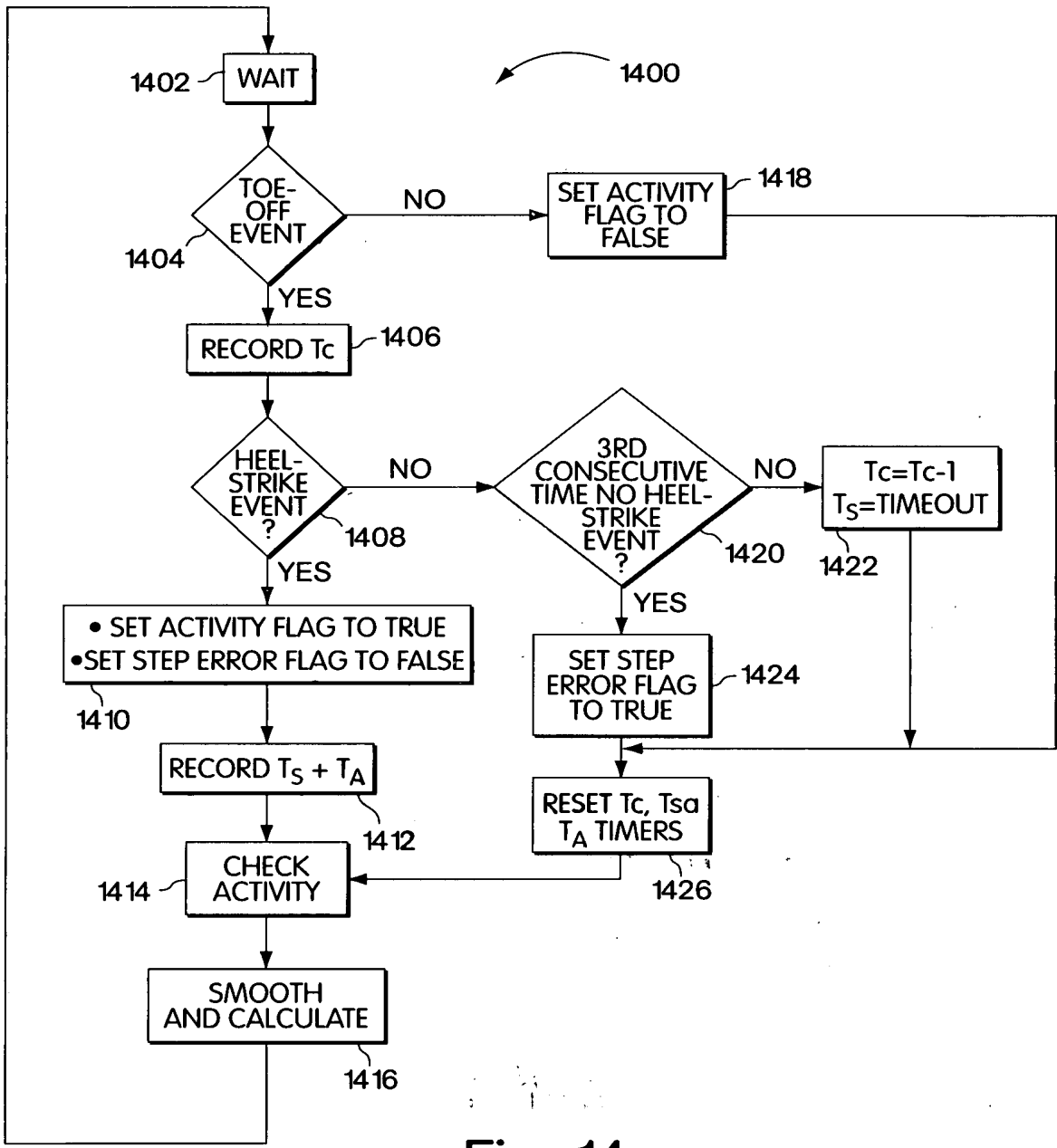
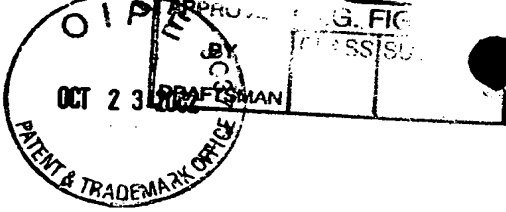
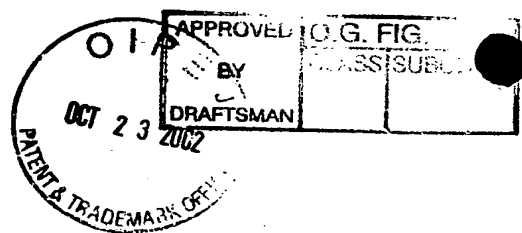


Fig. 14



Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

12/42

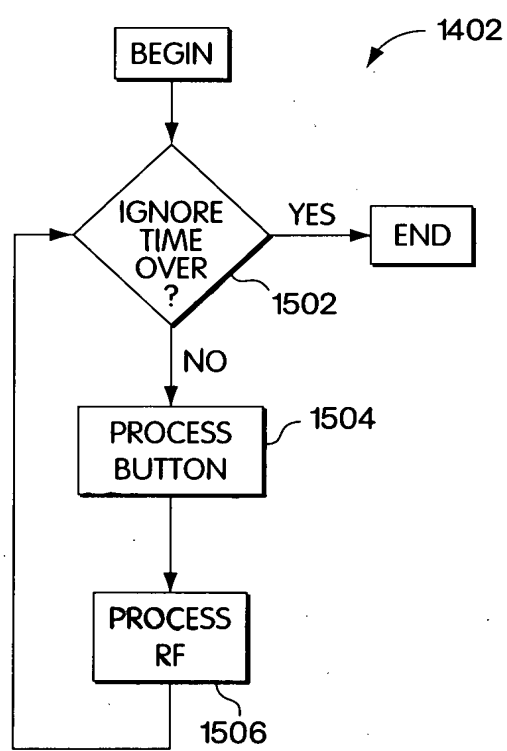


Fig. 15

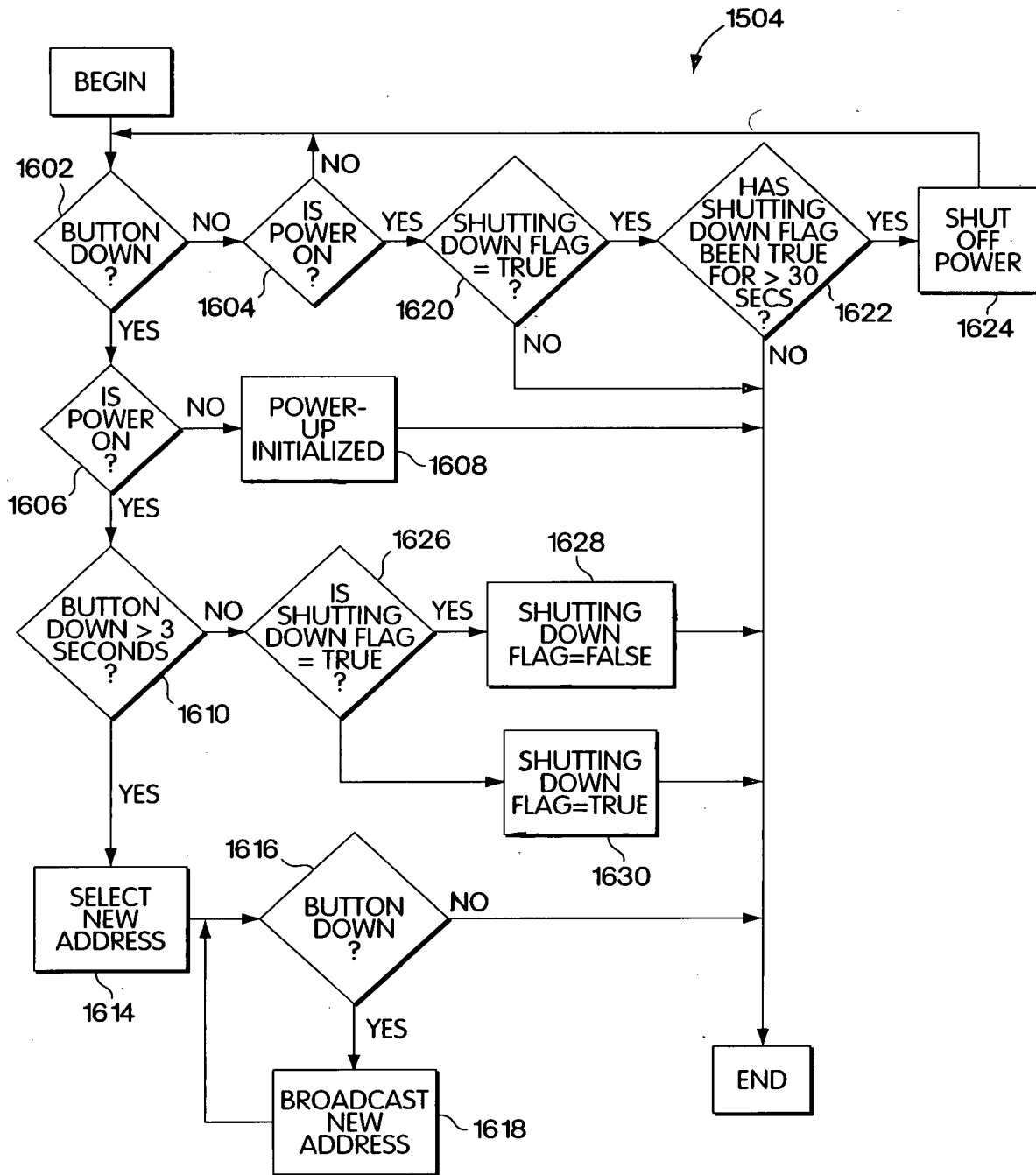
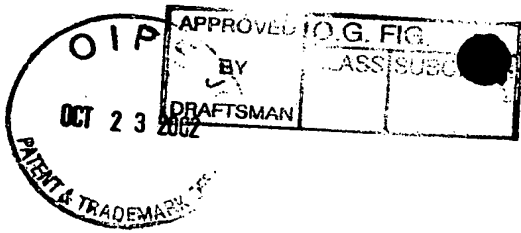


Fig. 16



14/42

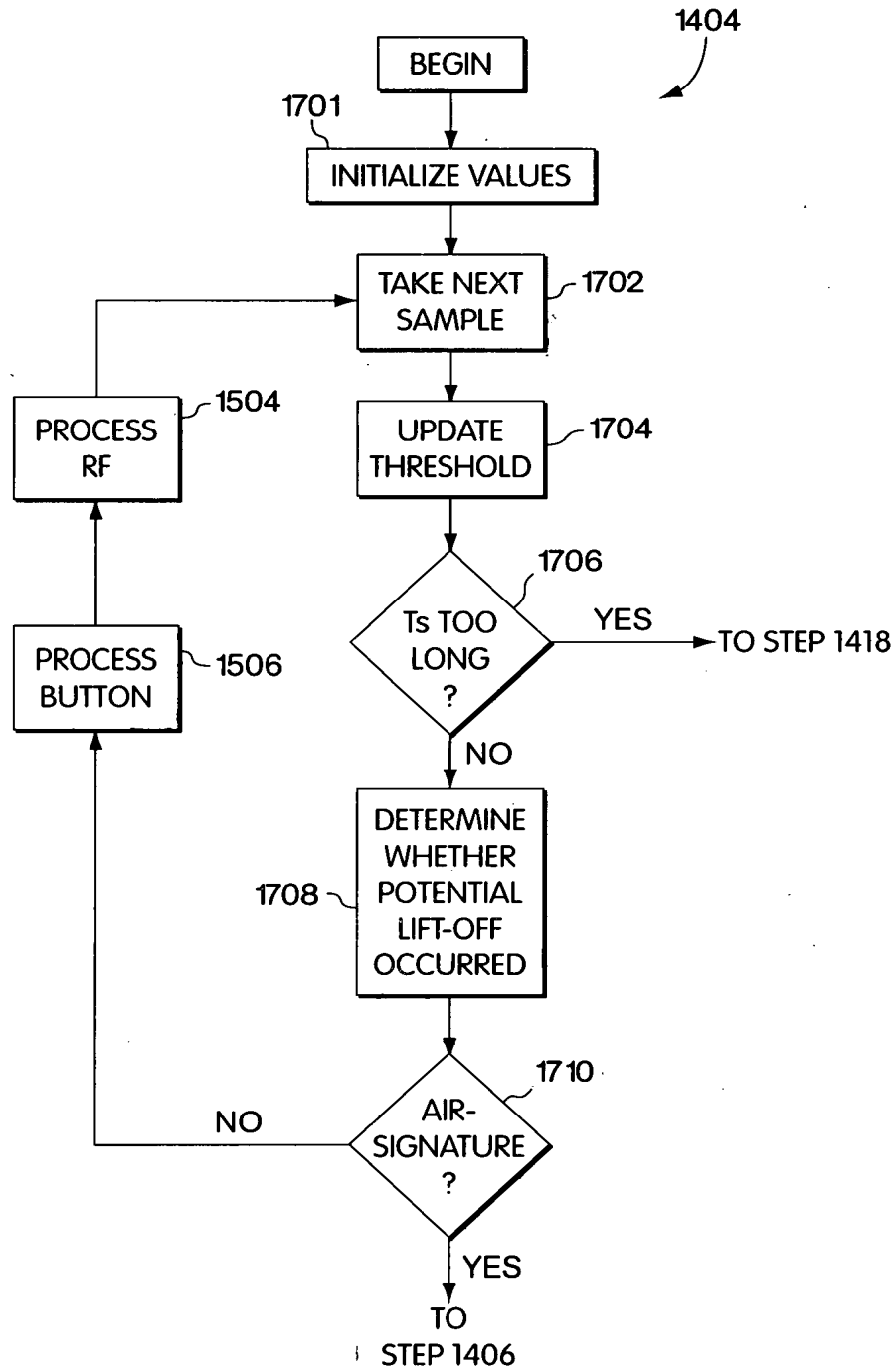


Fig. 17



15/42

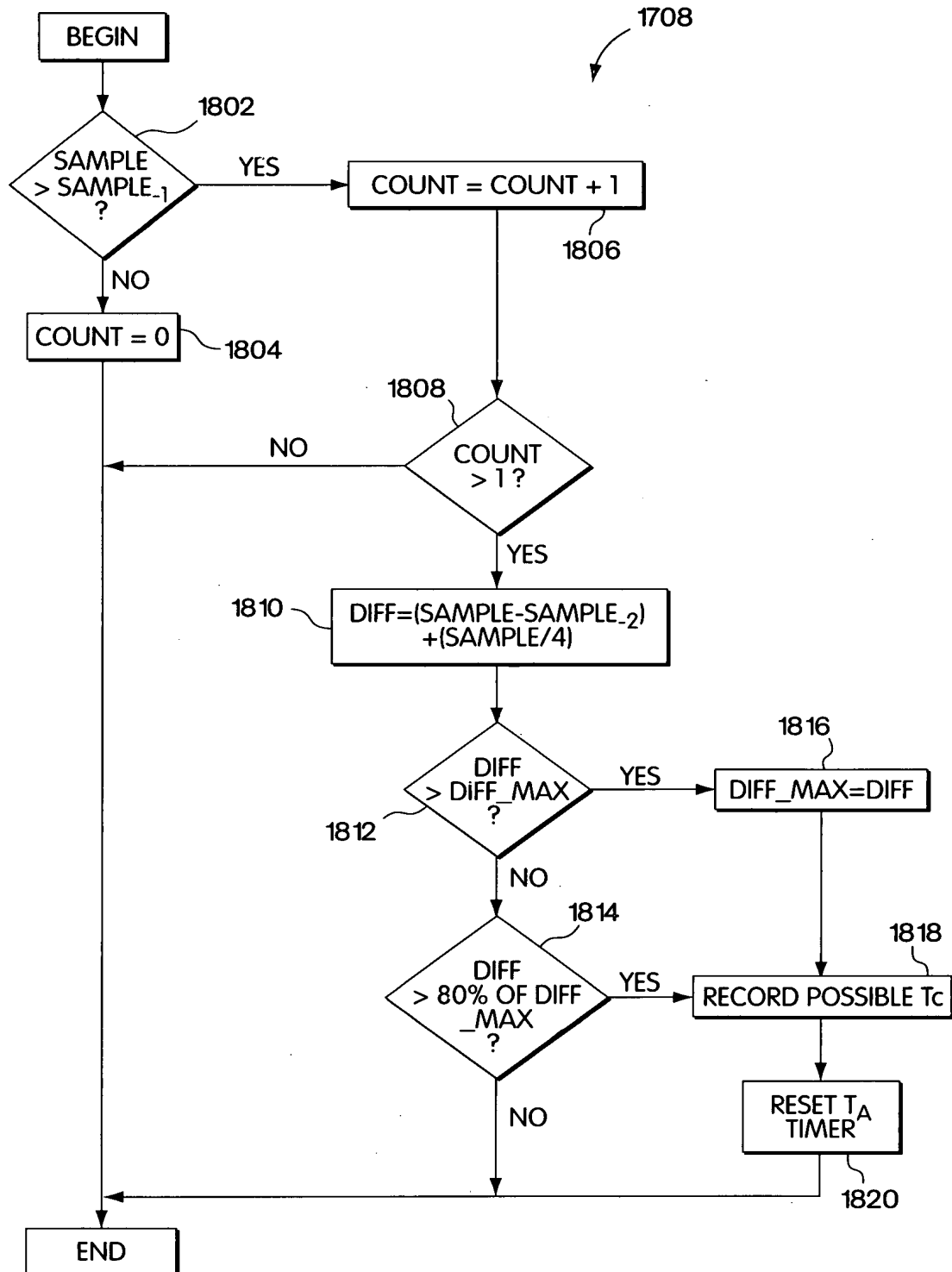


Fig. 18

16/42

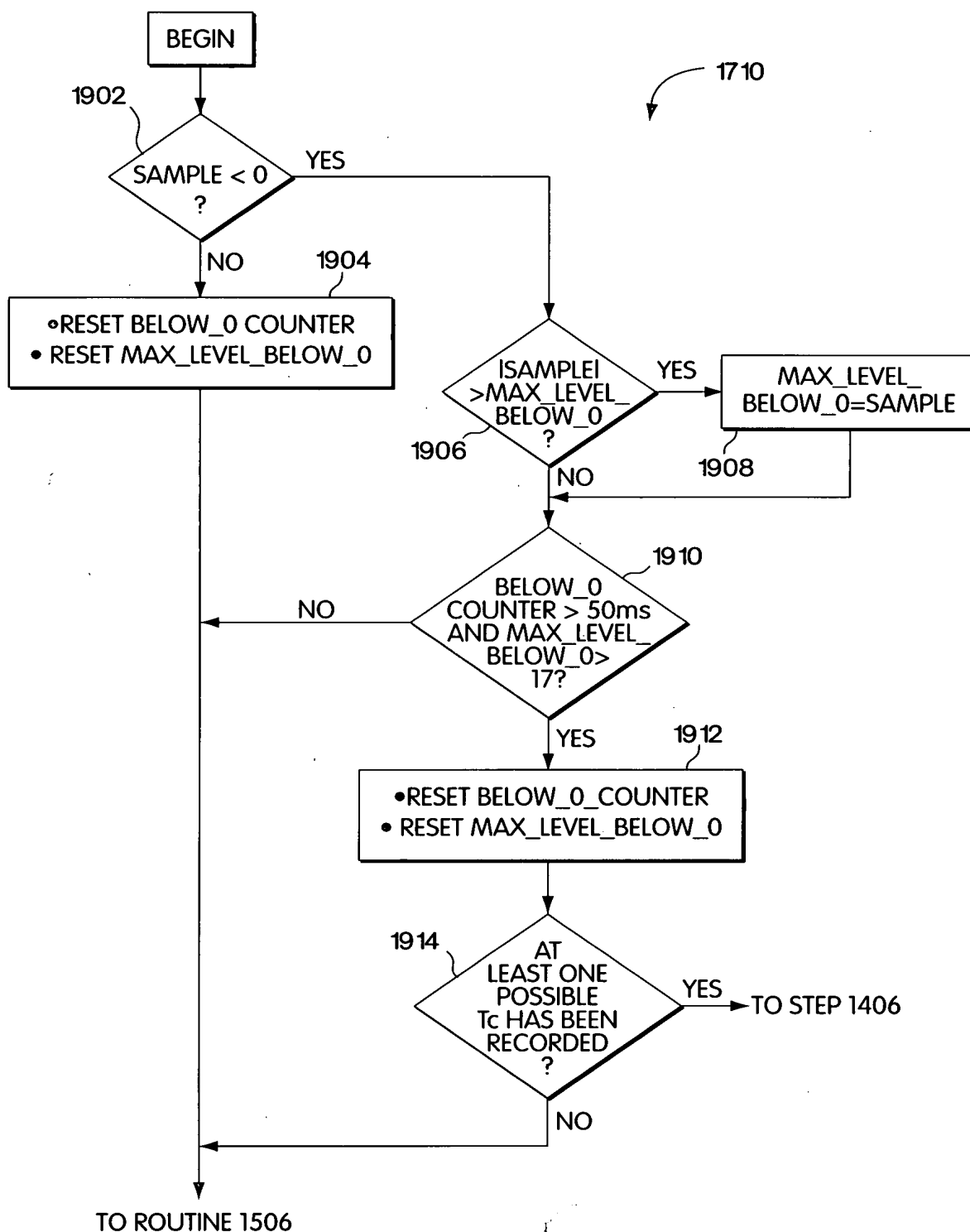
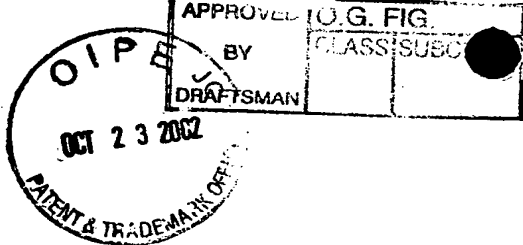


Fig. 19



Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

17/42

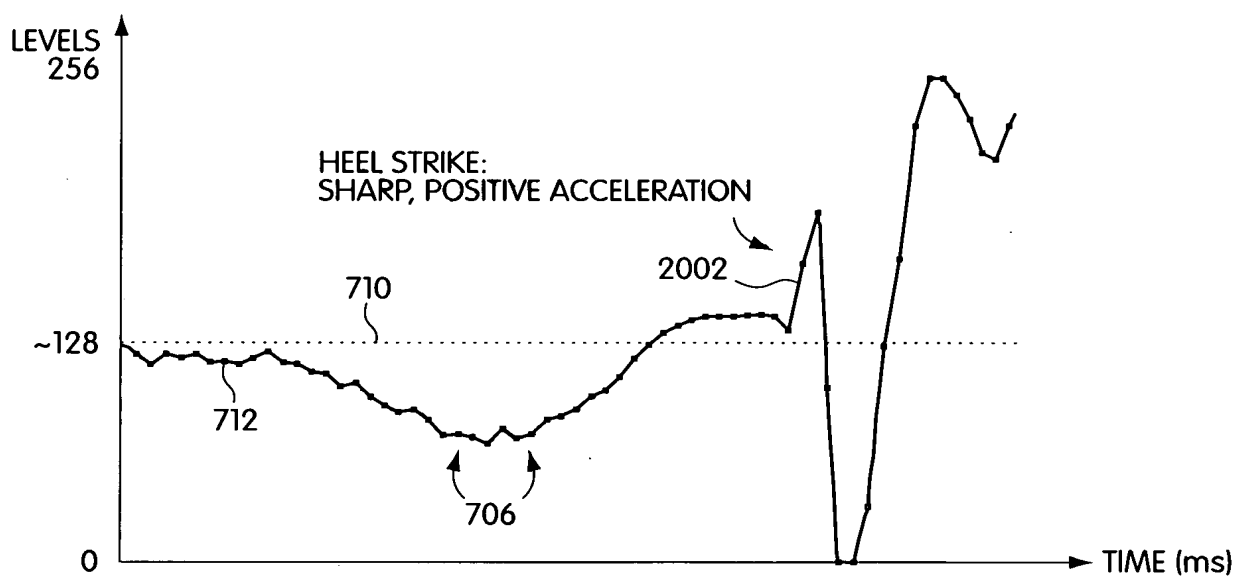


Fig. 20

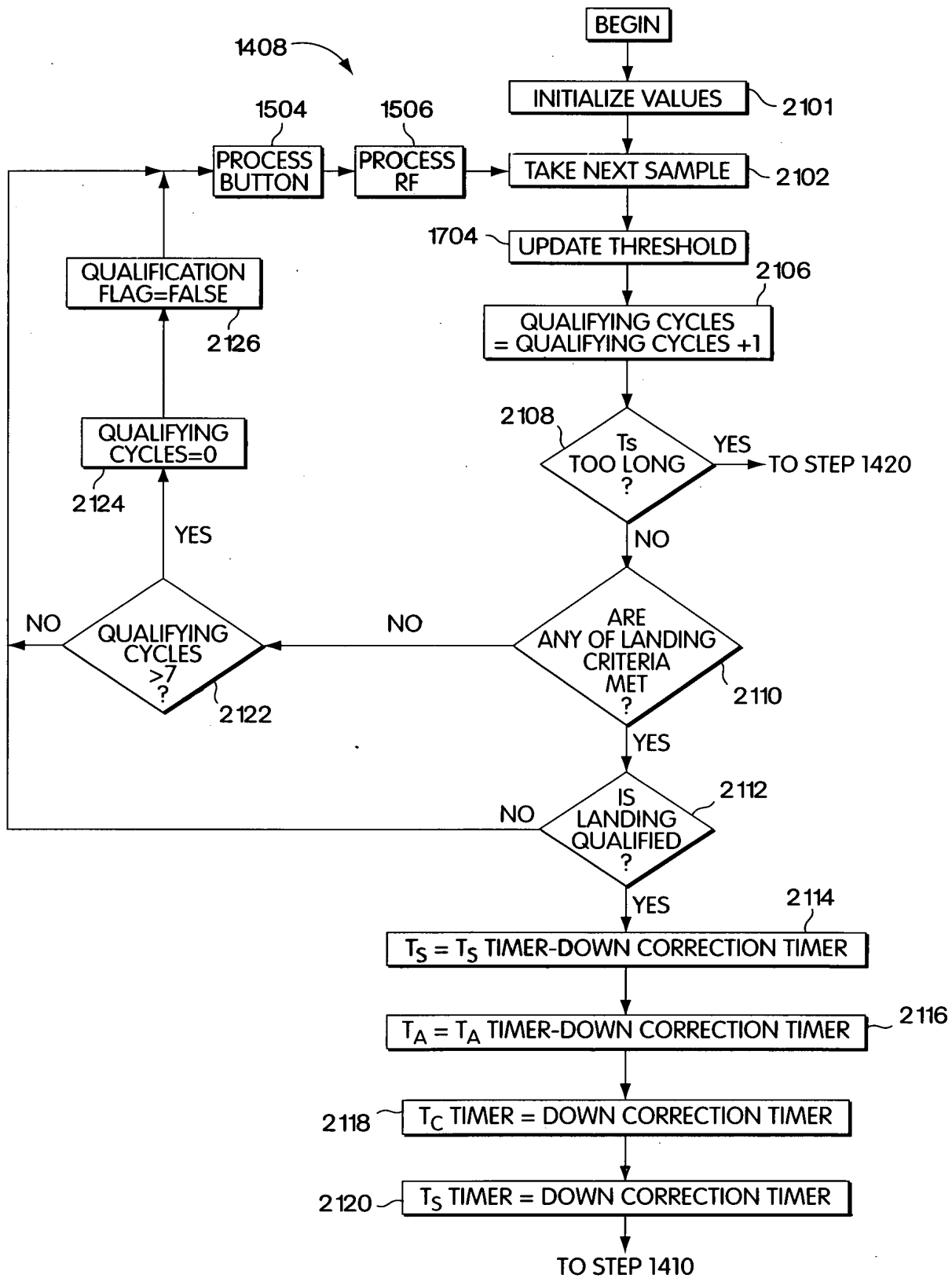


Fig. 21

19/42

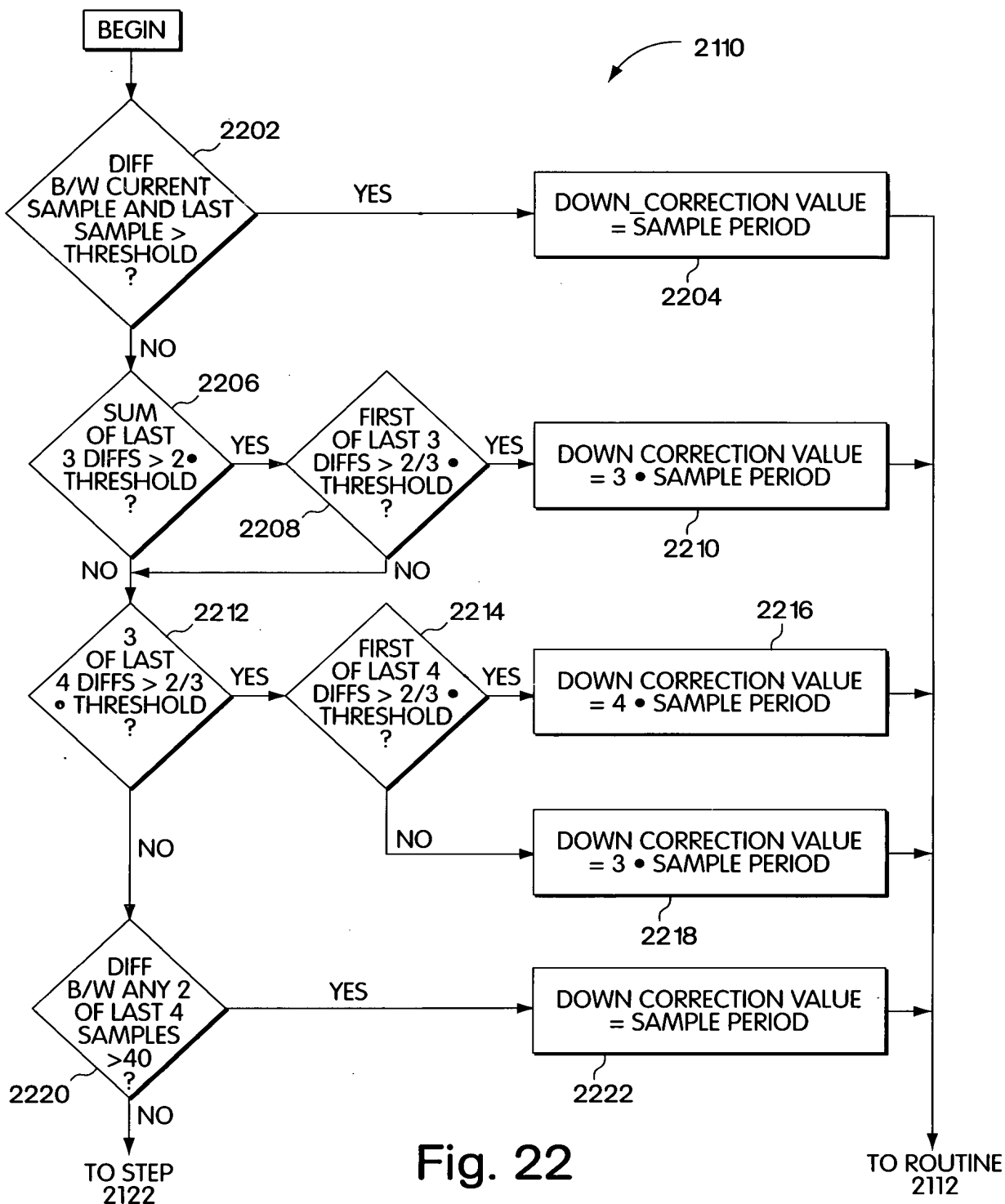


Fig. 22

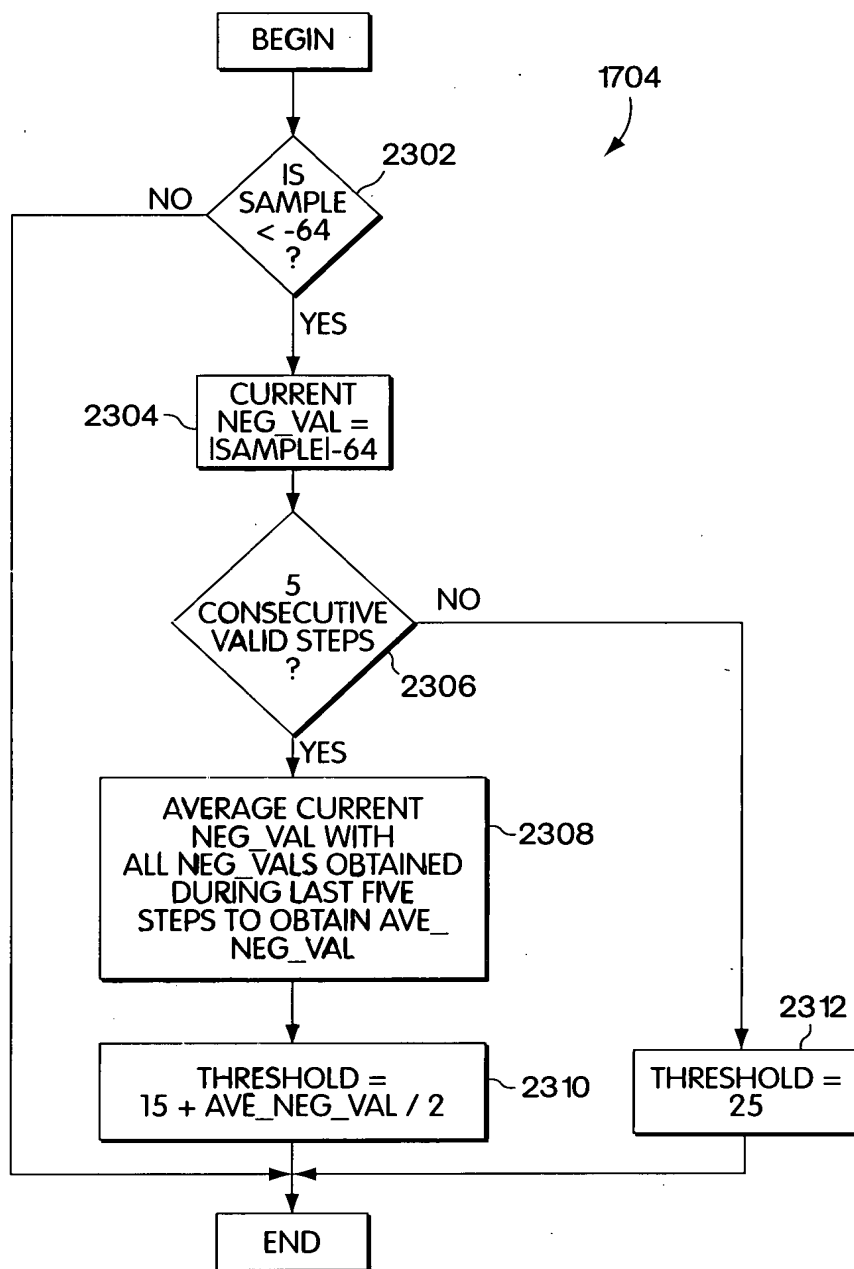
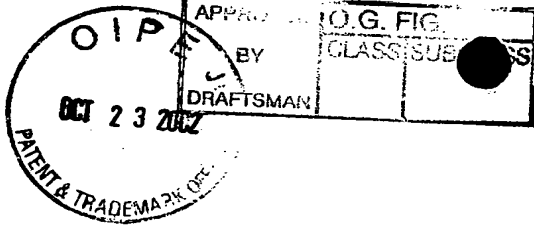


Fig. 23



21/42

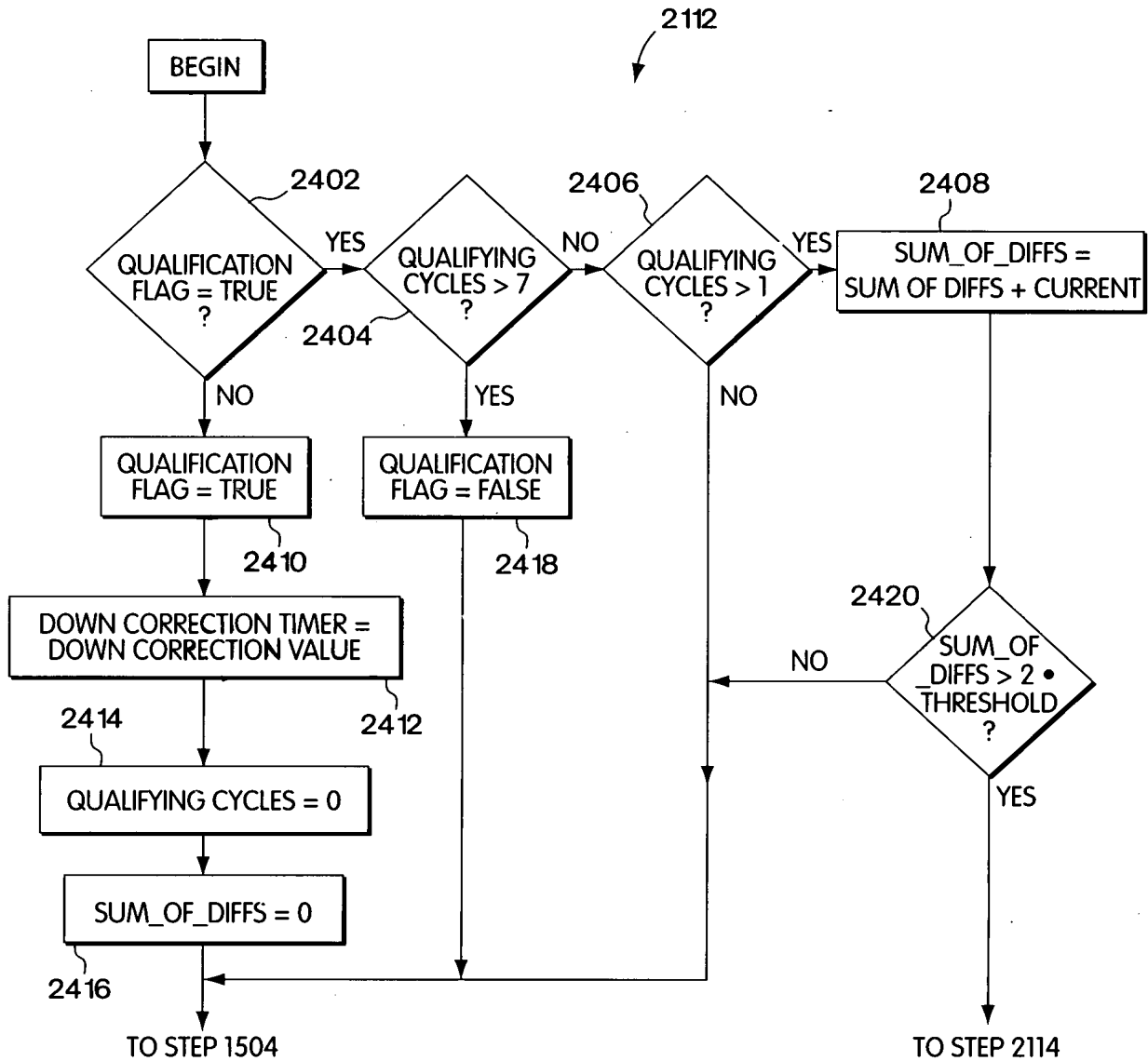
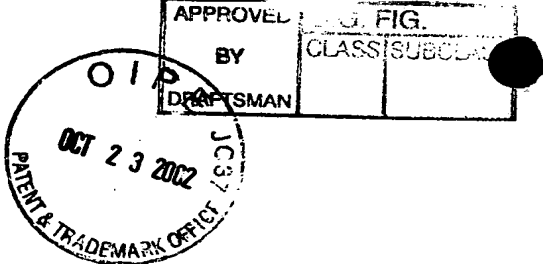


Fig. 24



Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.
09/642,865; Atty. Docket No.
P00663/70022

22/42

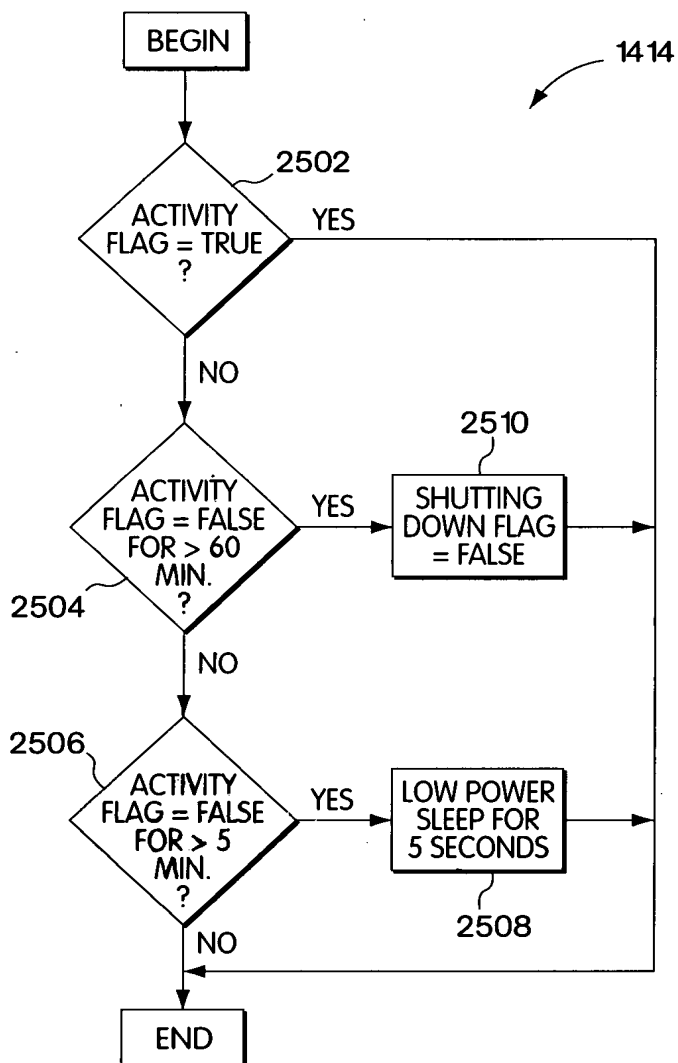


Fig. 25

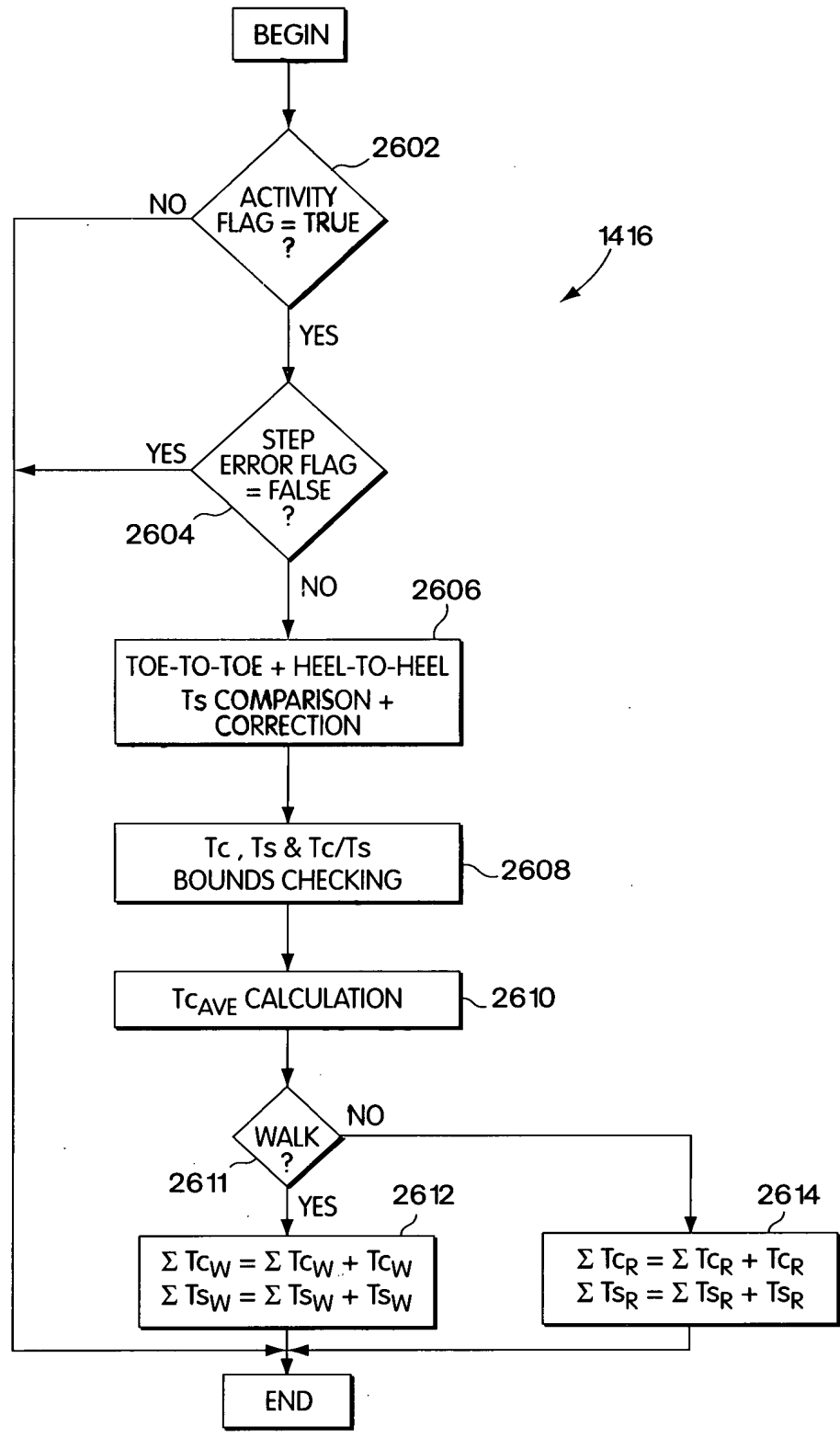


Fig. 26

24/42

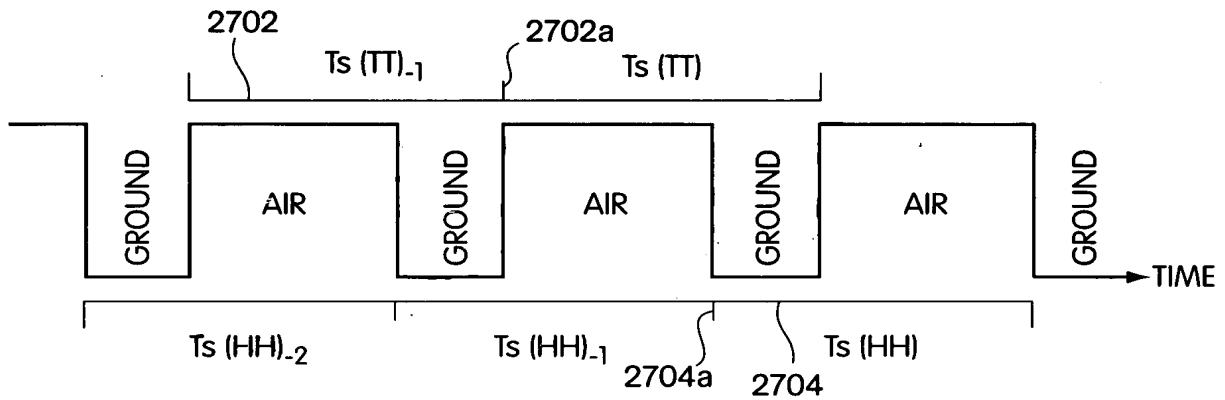


Fig. 27

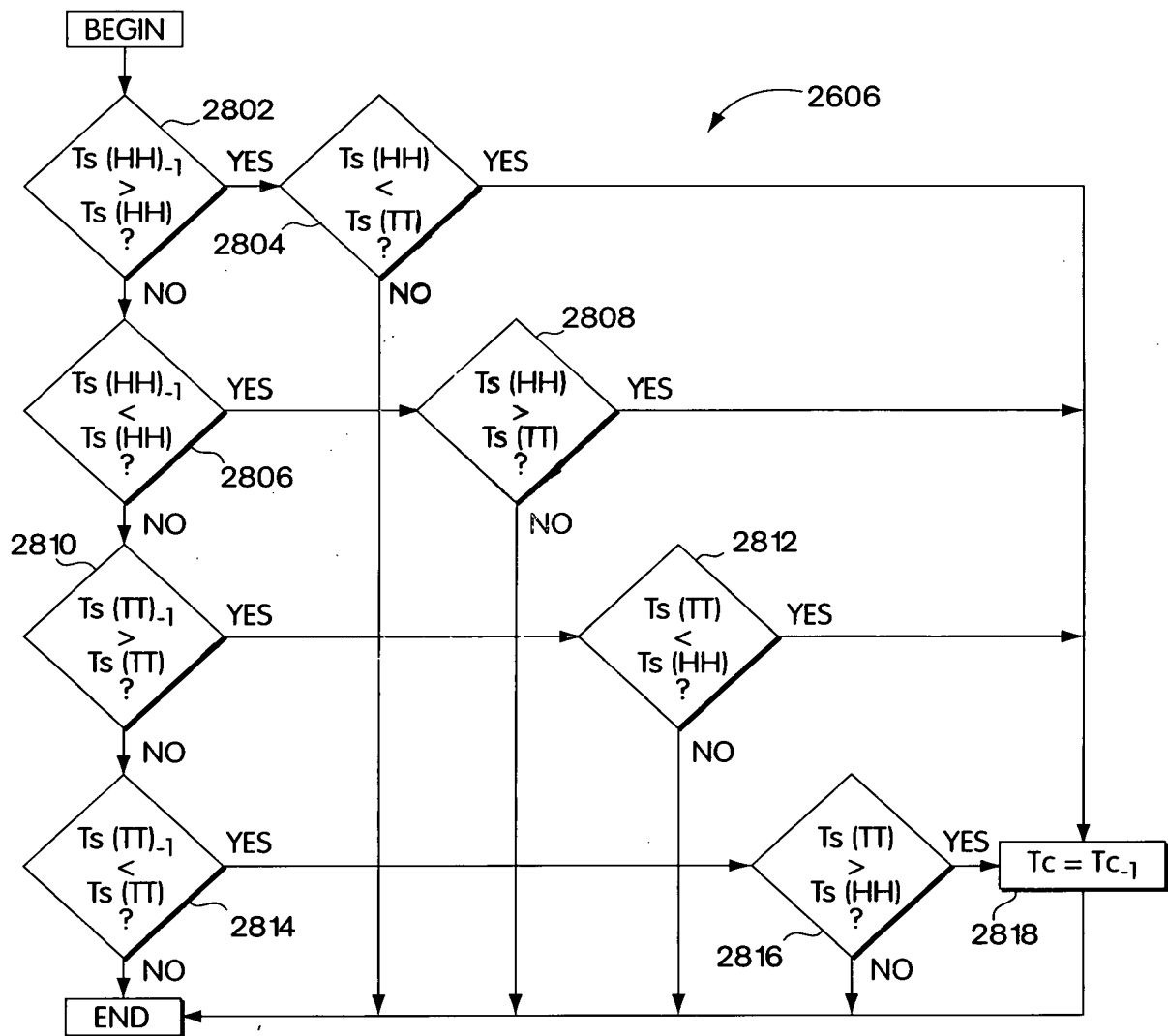


Fig. 28

APPROVED	J. G. FIG
BY	CLASS SUBOL
DRAFTSMAN	

Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

25/42

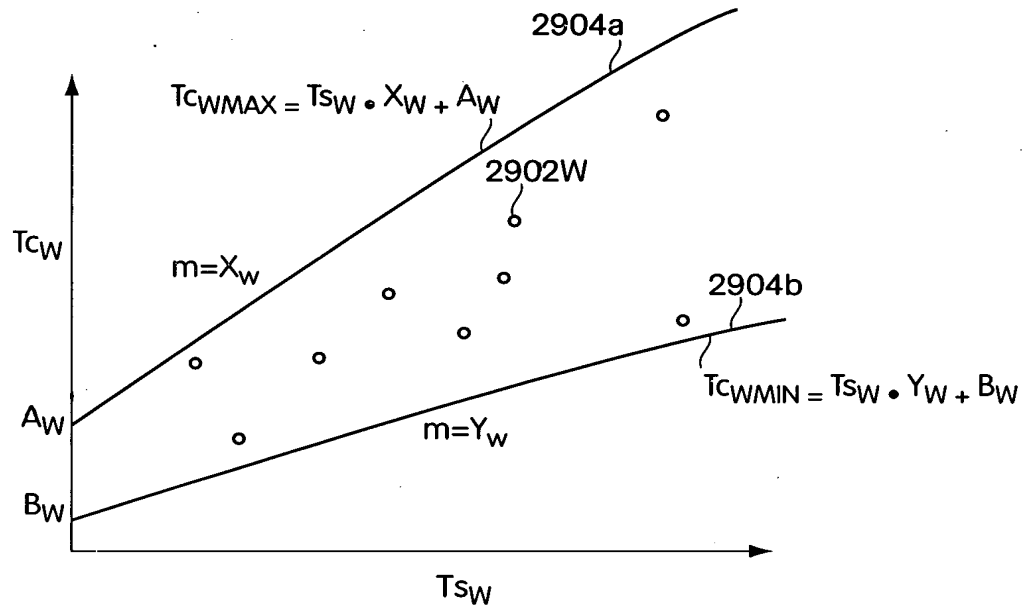


Fig. 29A

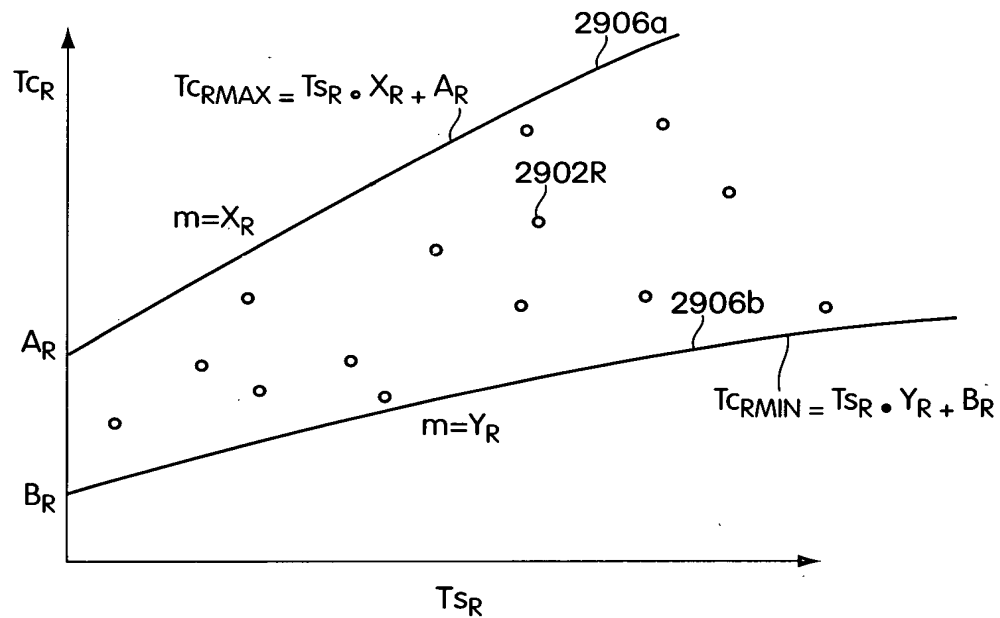


Fig. 29B

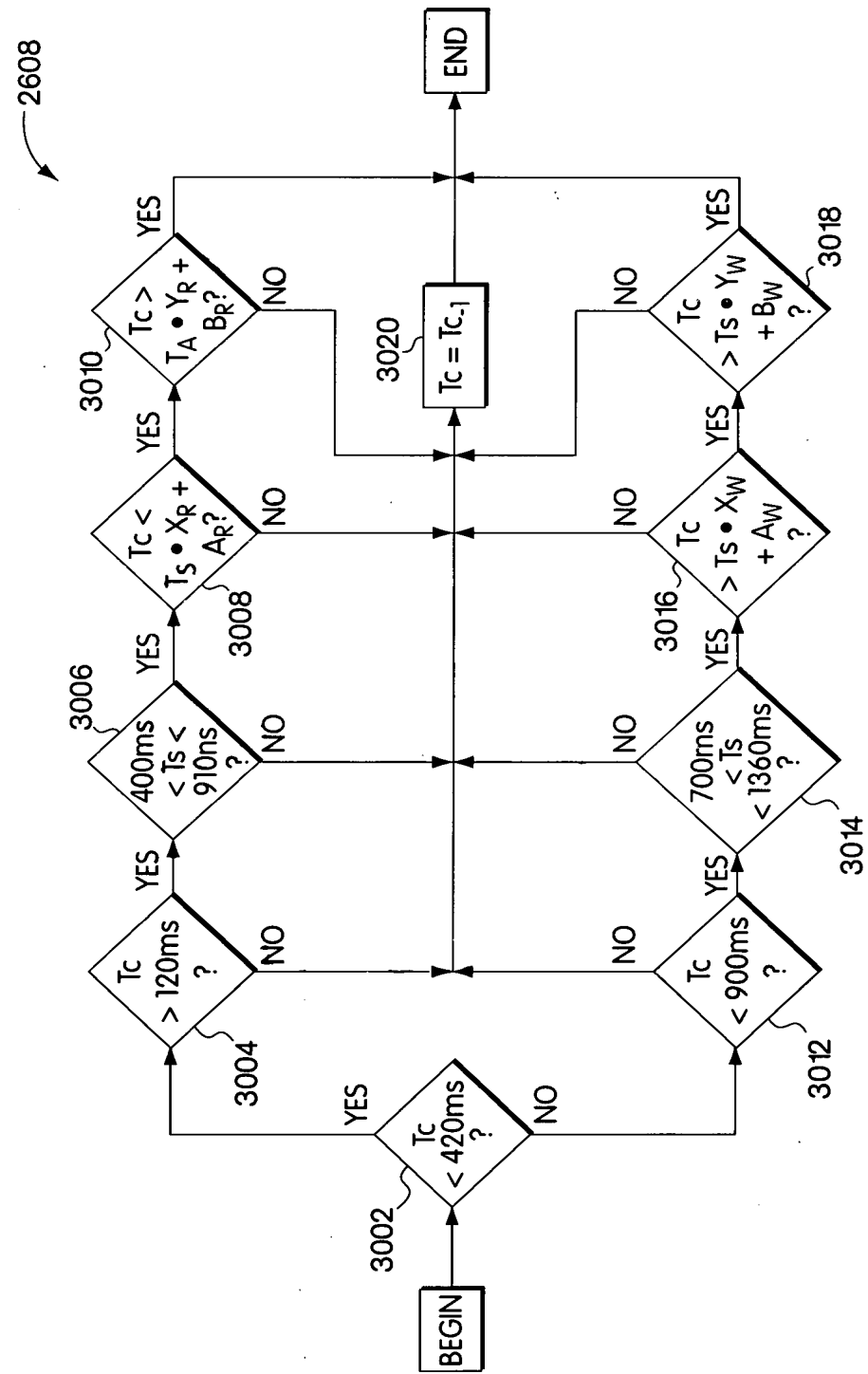


Fig. 30

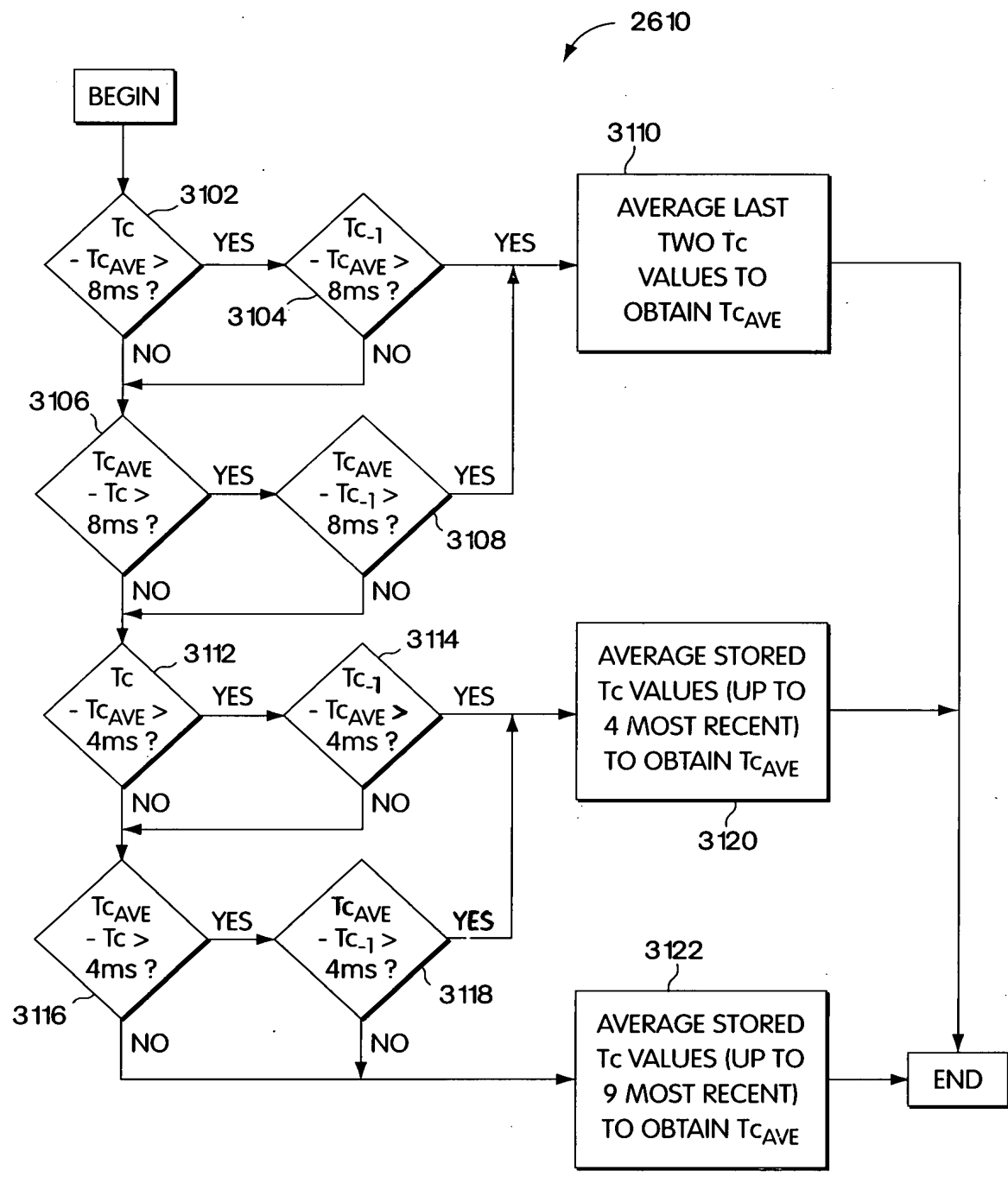


Fig. 31

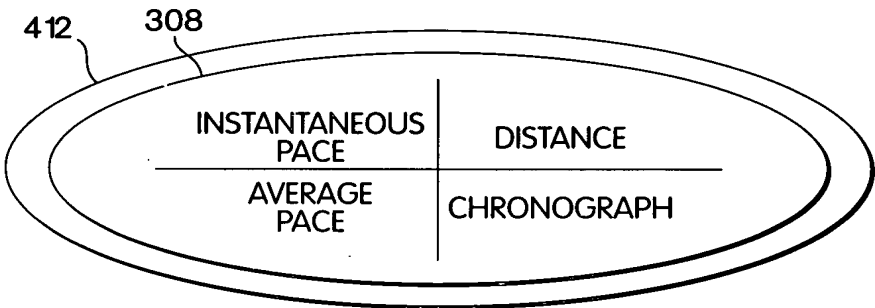
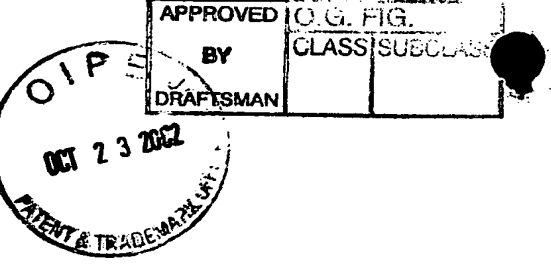


Fig. 32A

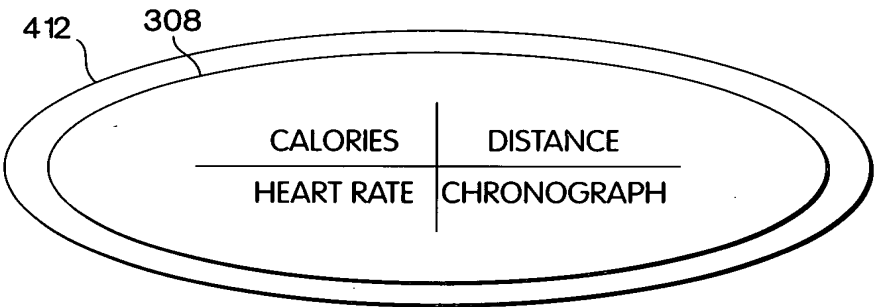


Fig. 32B

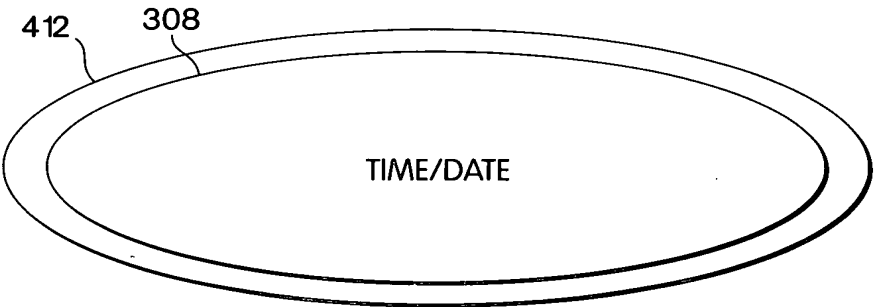


Fig. 32C

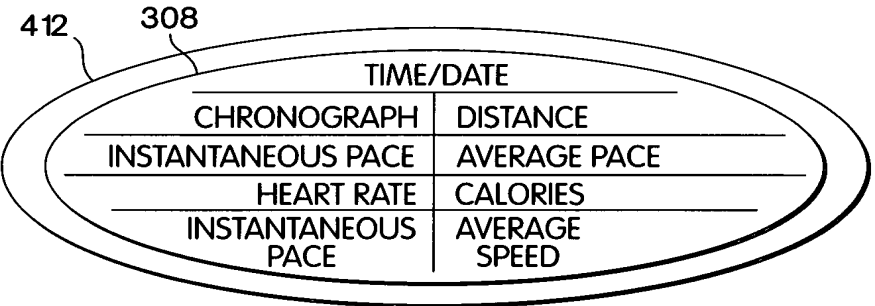
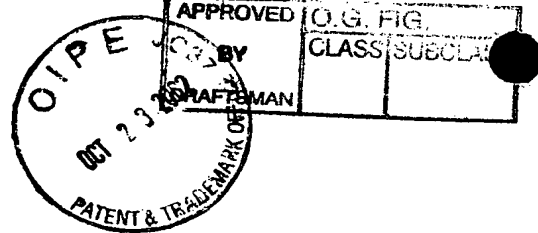


Fig. 32D



Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

29/42

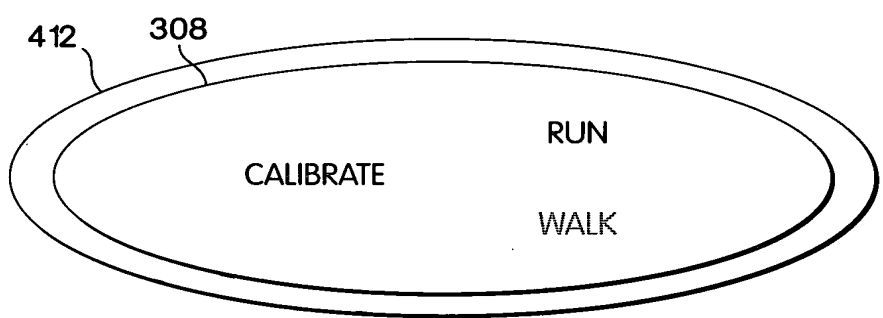


Fig. 32E

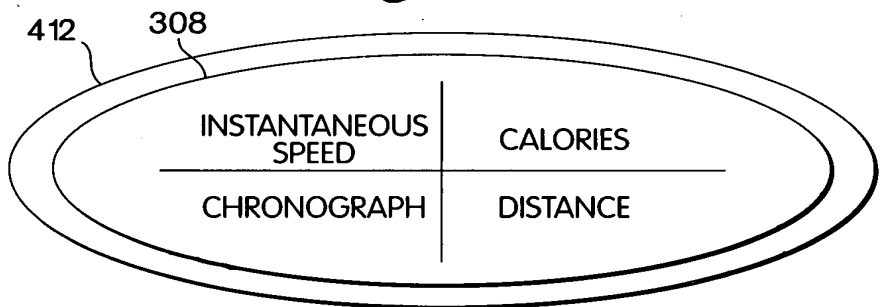


Fig. 32F

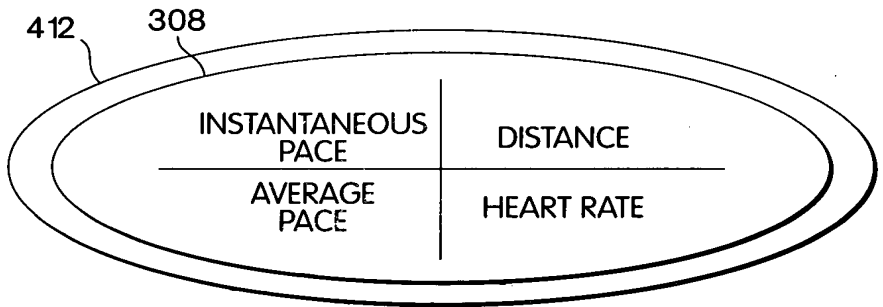


Fig. 32G

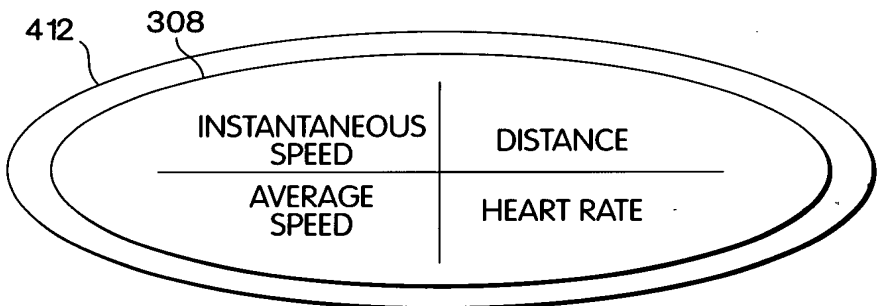


Fig. 32H



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

30/42

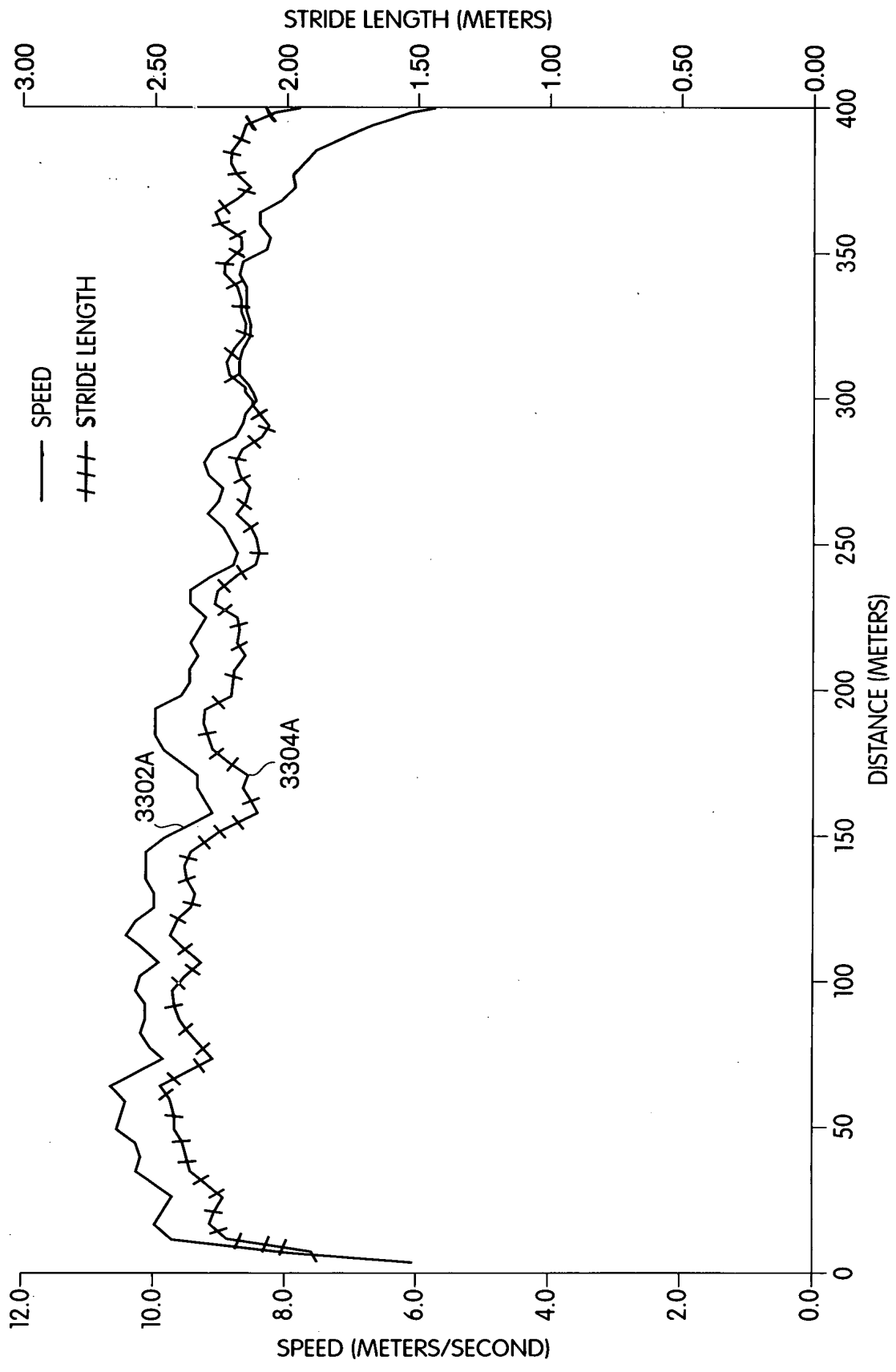


Fig. 33A



APPROVED	BY	CLASS	SUBCLASS
	DRAFTSMAN		

Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

31/42

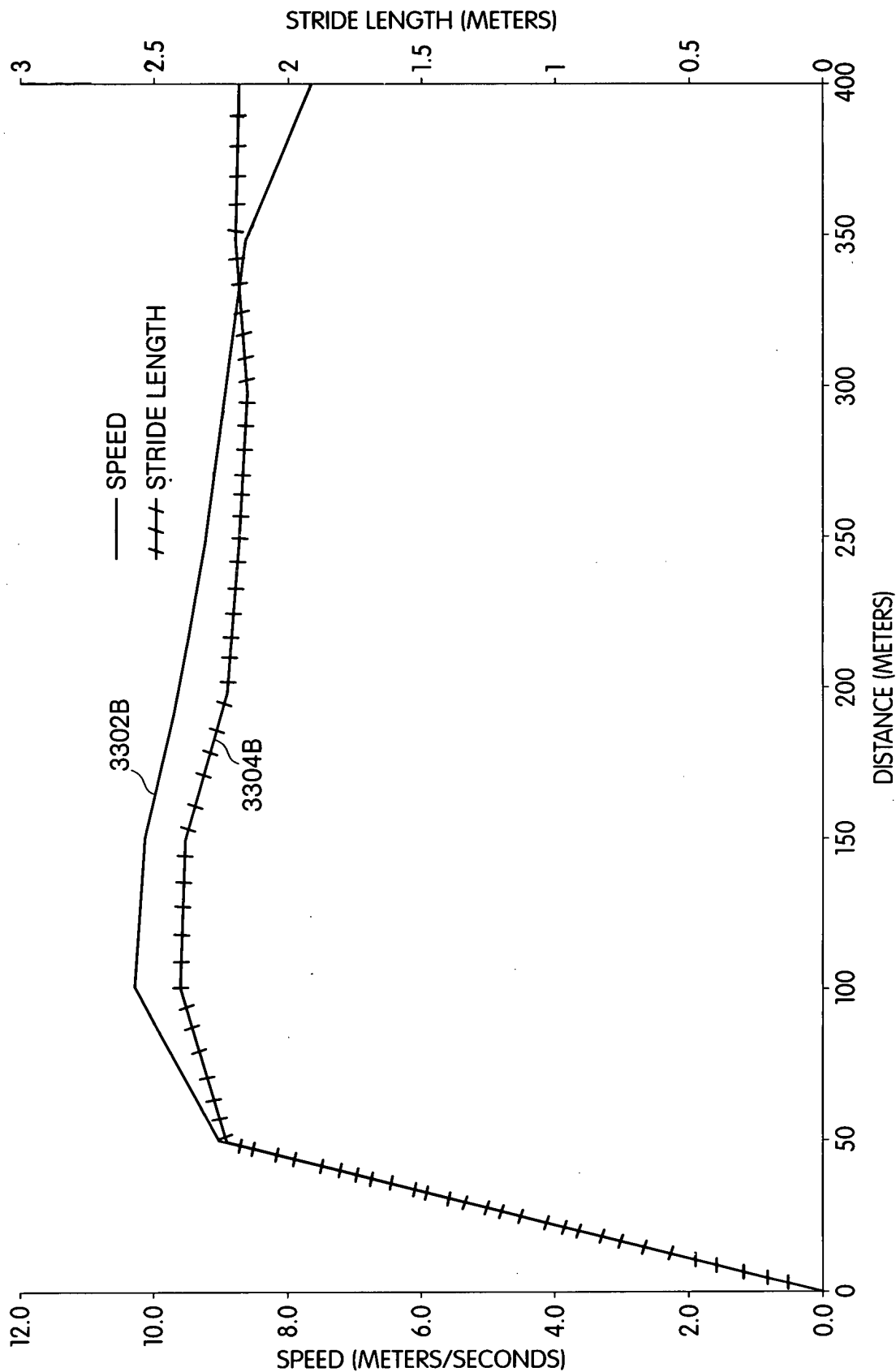
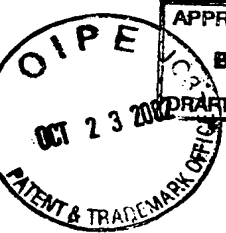


Fig. 33B



APPROVED	U.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

32/42

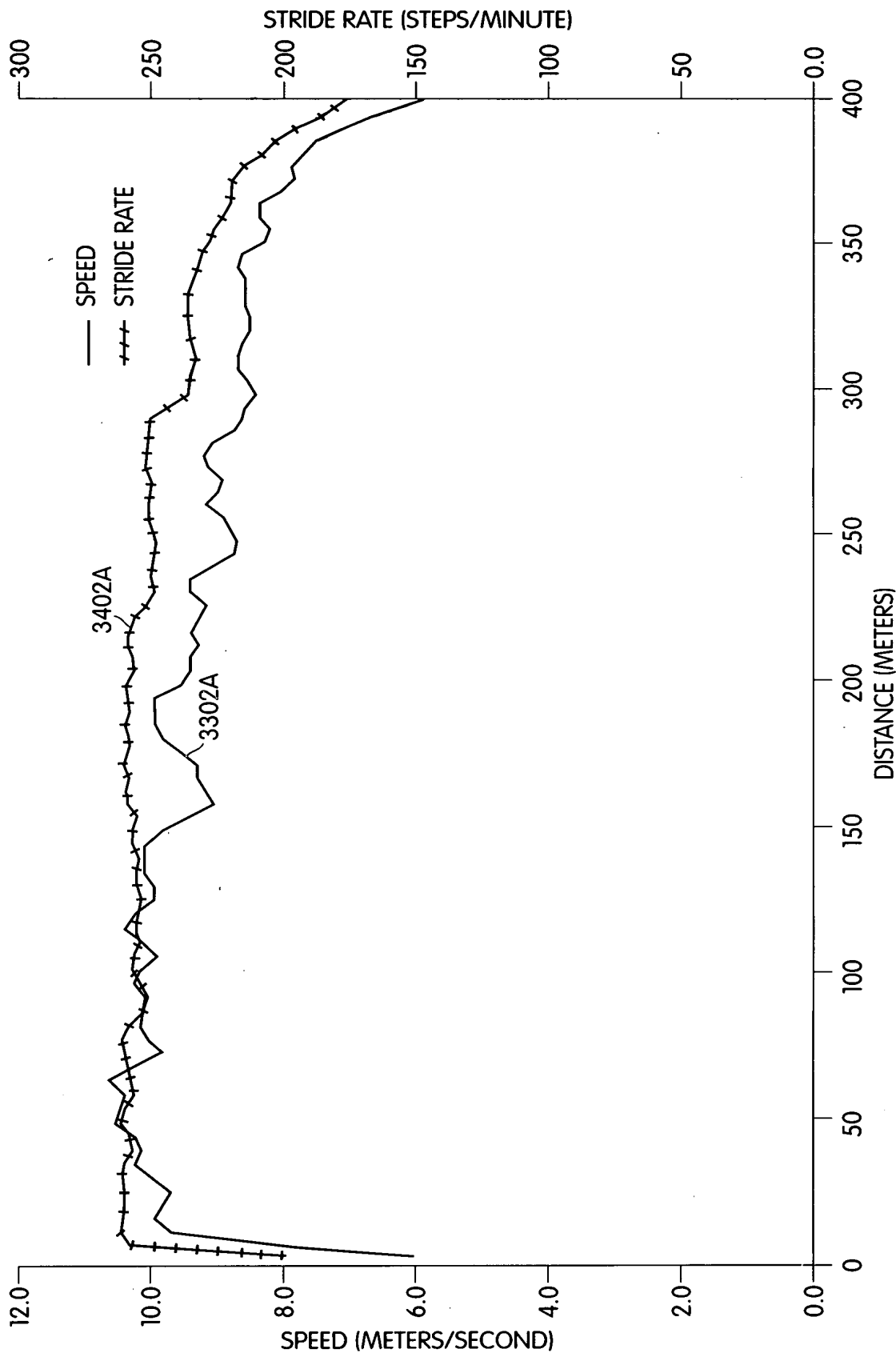


Fig. 34A

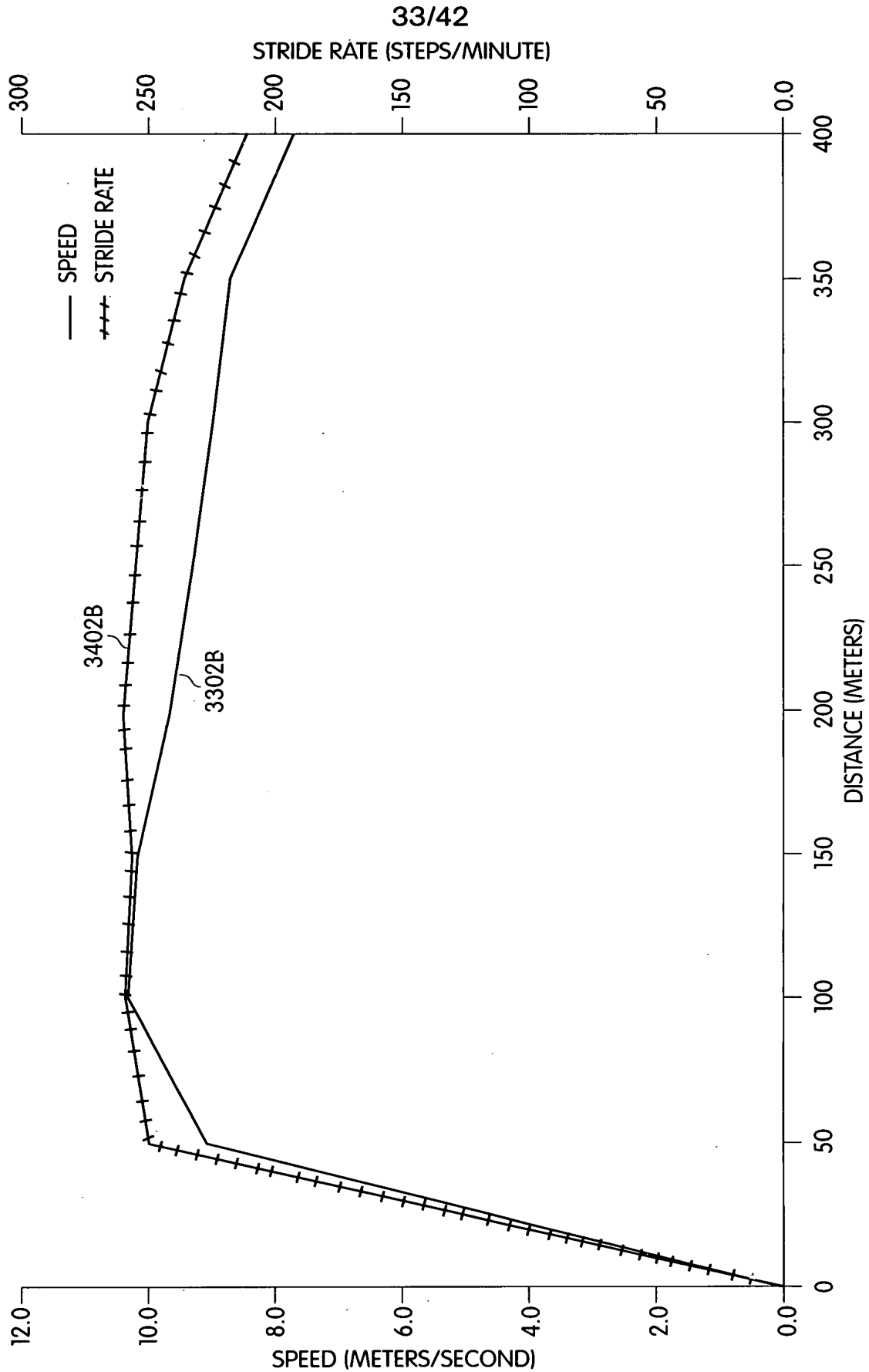


Fig. 34B



APPROVED	DATE
DRAWN	MAN
CLASS	SUBCL

Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

34/42

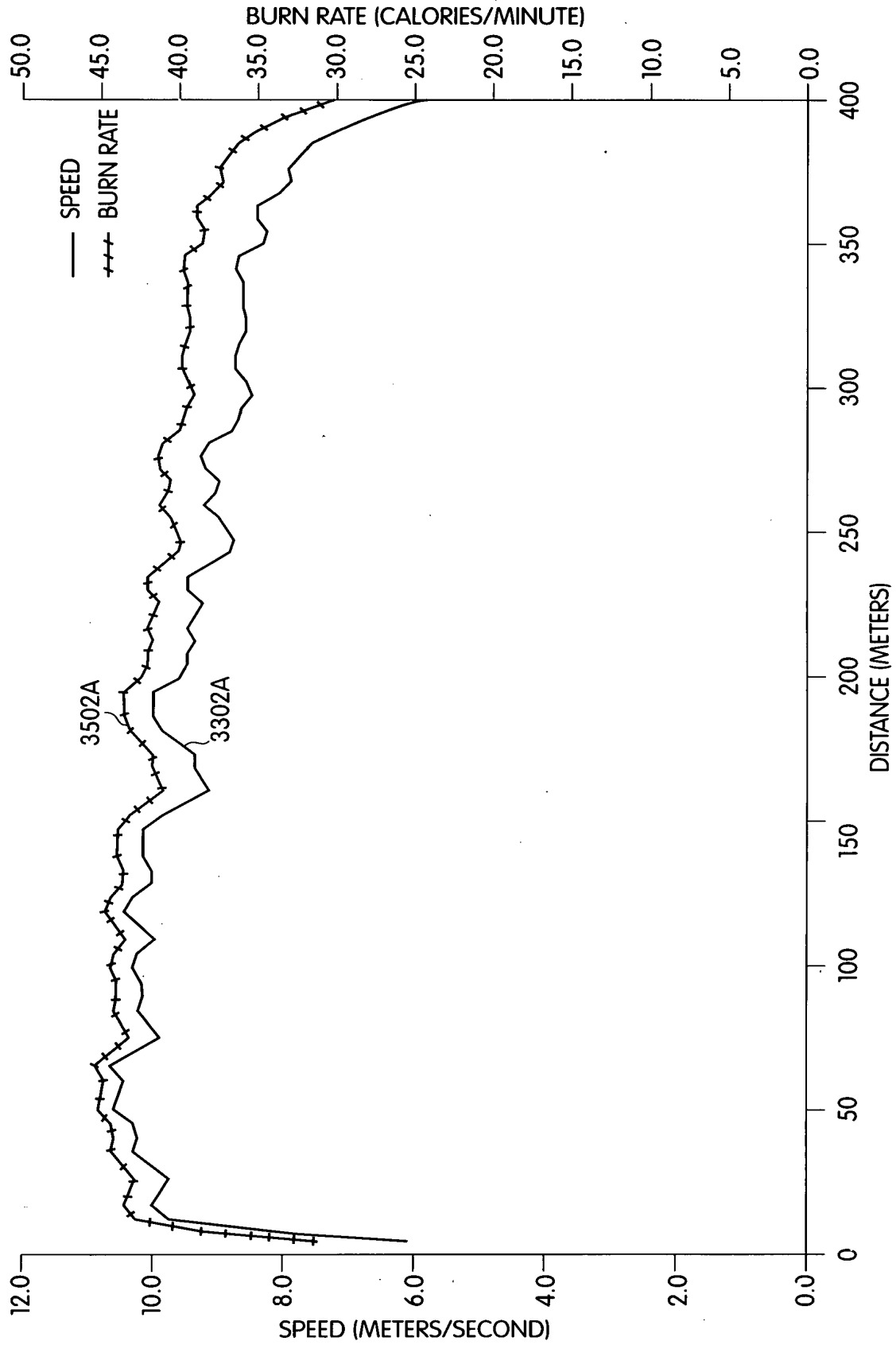


Fig. 35A



APPROVED	CLASS	SUBCLASS
BY		
DRAFTSMAN		

Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

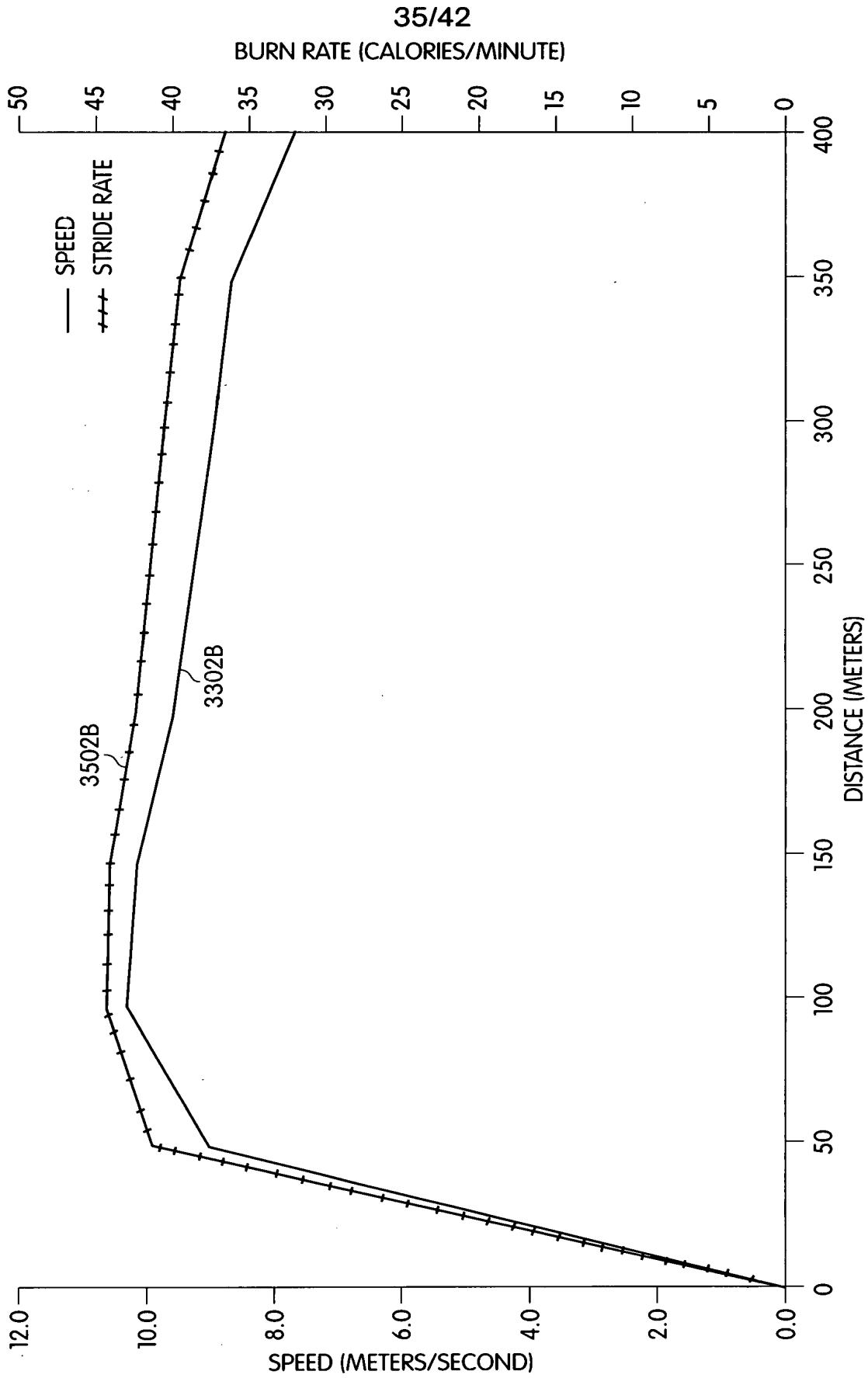
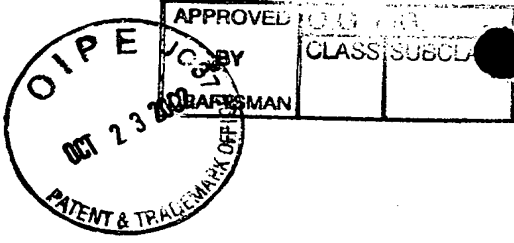


Fig. 35B



Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

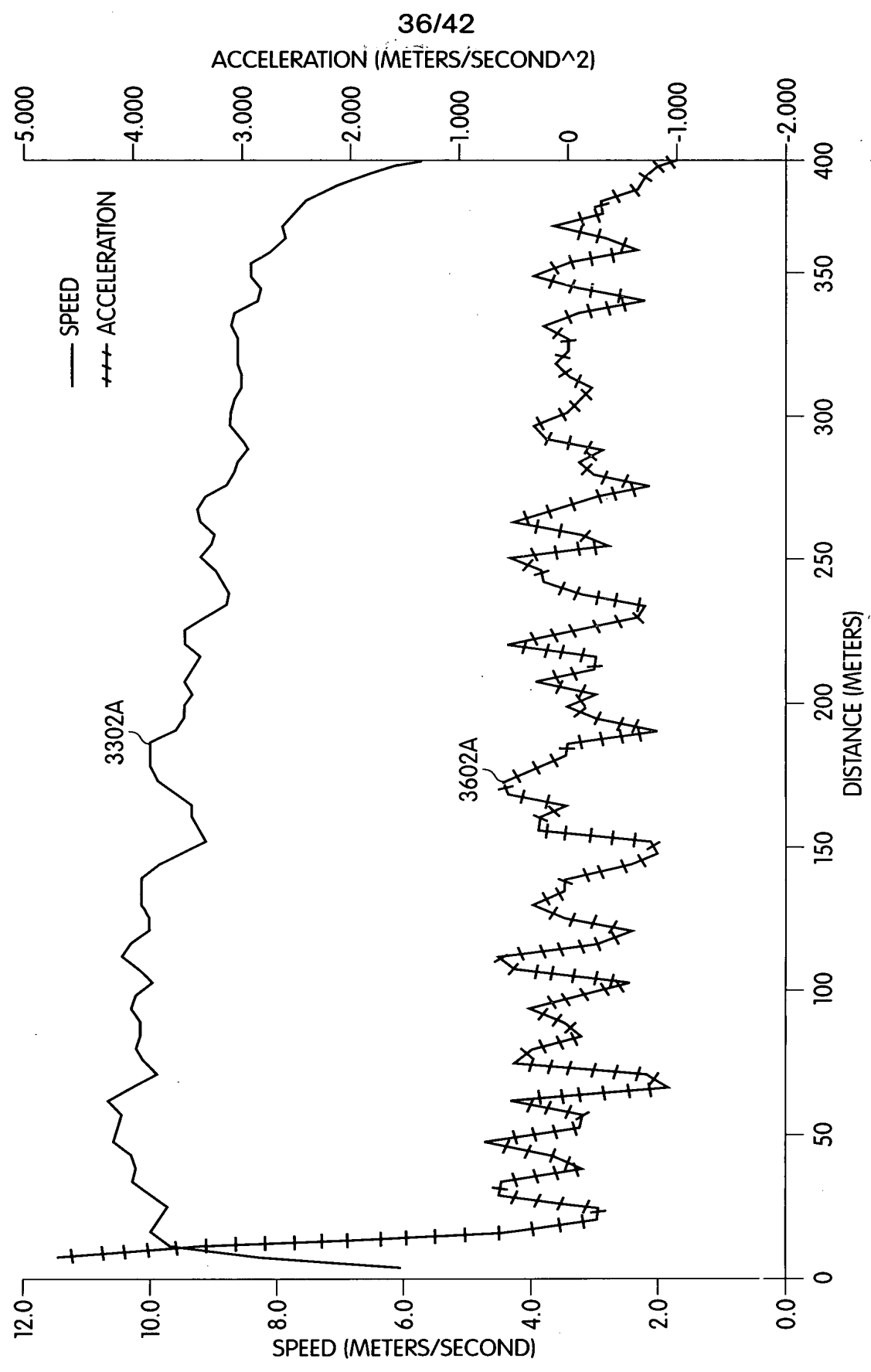
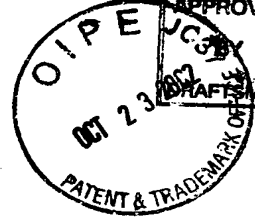


Fig. 36A



APPROVED	LOG
CLASS	SUBCLASS
DRAFTSMAN	

Best Available Copy
Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

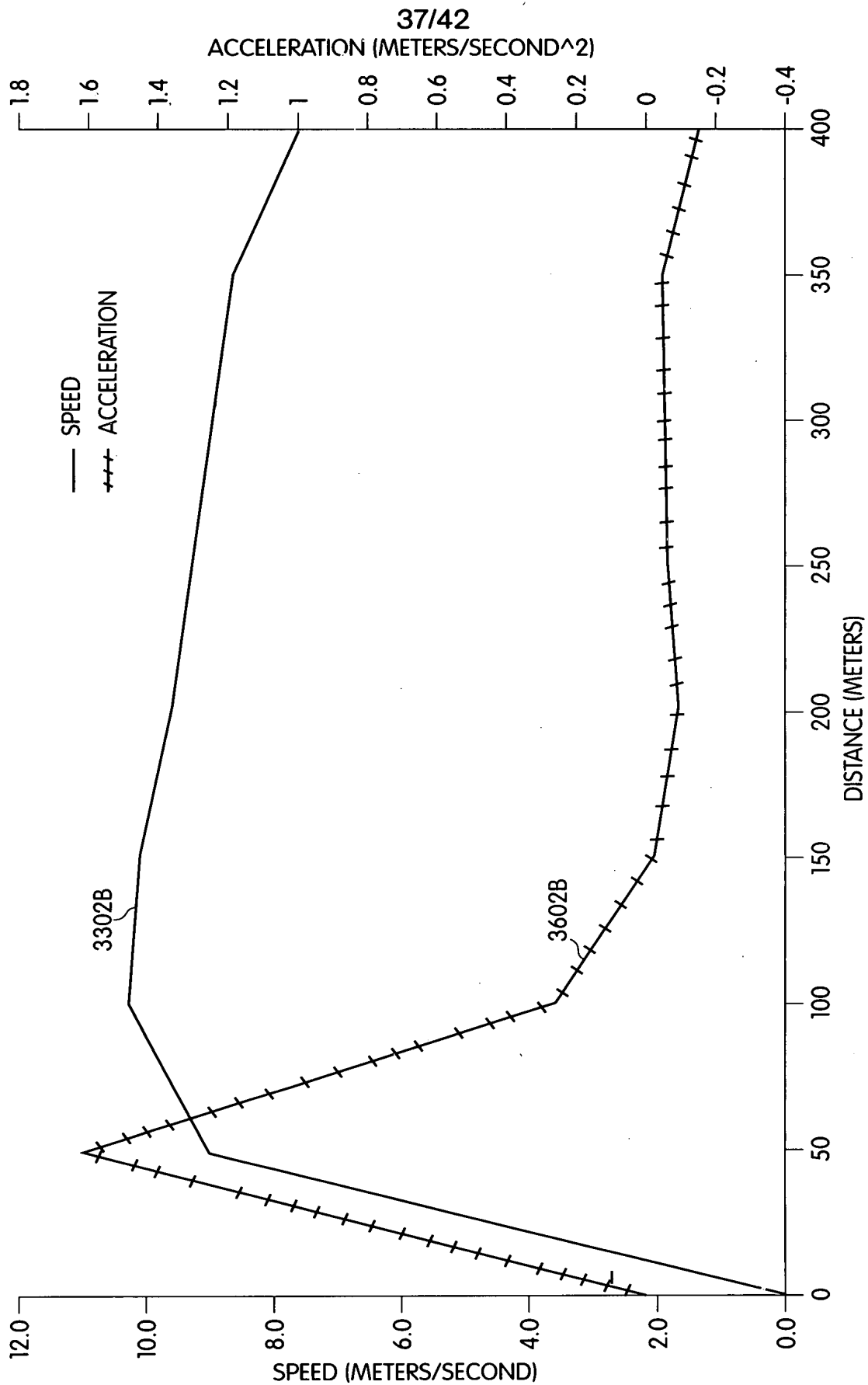
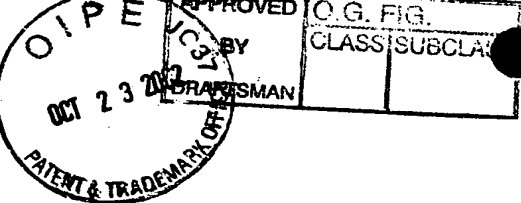


Fig. 36B

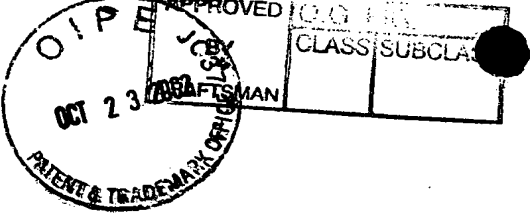


Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

38/42

DISTANCE	RACE TIME	SPLIT TIME	AVERAGE SPEED	AVERAGE SPEED	AVERAGE STRIDE LENGTH	AVERAGE STRIDE LENGTH		AVERAGE STRIDE RATE	AVERAGE BURN RATE	TOTAL CALORIES	ACCELERATION
METERS	SECONDS	SECONDS	METERS/SECOND	MPH	METERS	FEET	INCHES	STEPS/MINUTE	CALORIES/MINUTE	CALORIES	METERS/SECOND
0	0	0	0	0	0	0	0	0	0	0	0
50	5.6	5.6	9.0	20.1	2.22	7	3	249.5	41.1	3.7	1.621
100	10.4	4.9	10.3	22.9	2.39	7	9	257.9	44.2	7.3	0.257
150	15.4	4.9	10.1	22.6	2.37	7	9	256.1	43.9	10.9	-0.030
200	20.6	5.2	9.6	21.4	2.22	7	3	259.7	42.3	14.6	-0.100
250	26.0	5.4	9.2	20.7	2.18	7	1	255.1	41.3	18.3	-0.063
300	31.6	5.6	8.9	20.0	2.15	7	0	250.4	40.5	22.1	-0.054
350	37.4	5.8	8.7	19.4	2.20	7	2	236.1	39.6	25.9	-0.048
400	43.9	6.5	7.6	17.1	2.18	7	1	211.1	36.5	29.9	-0.155
SPLITS											

Fig. 37



Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

39/42

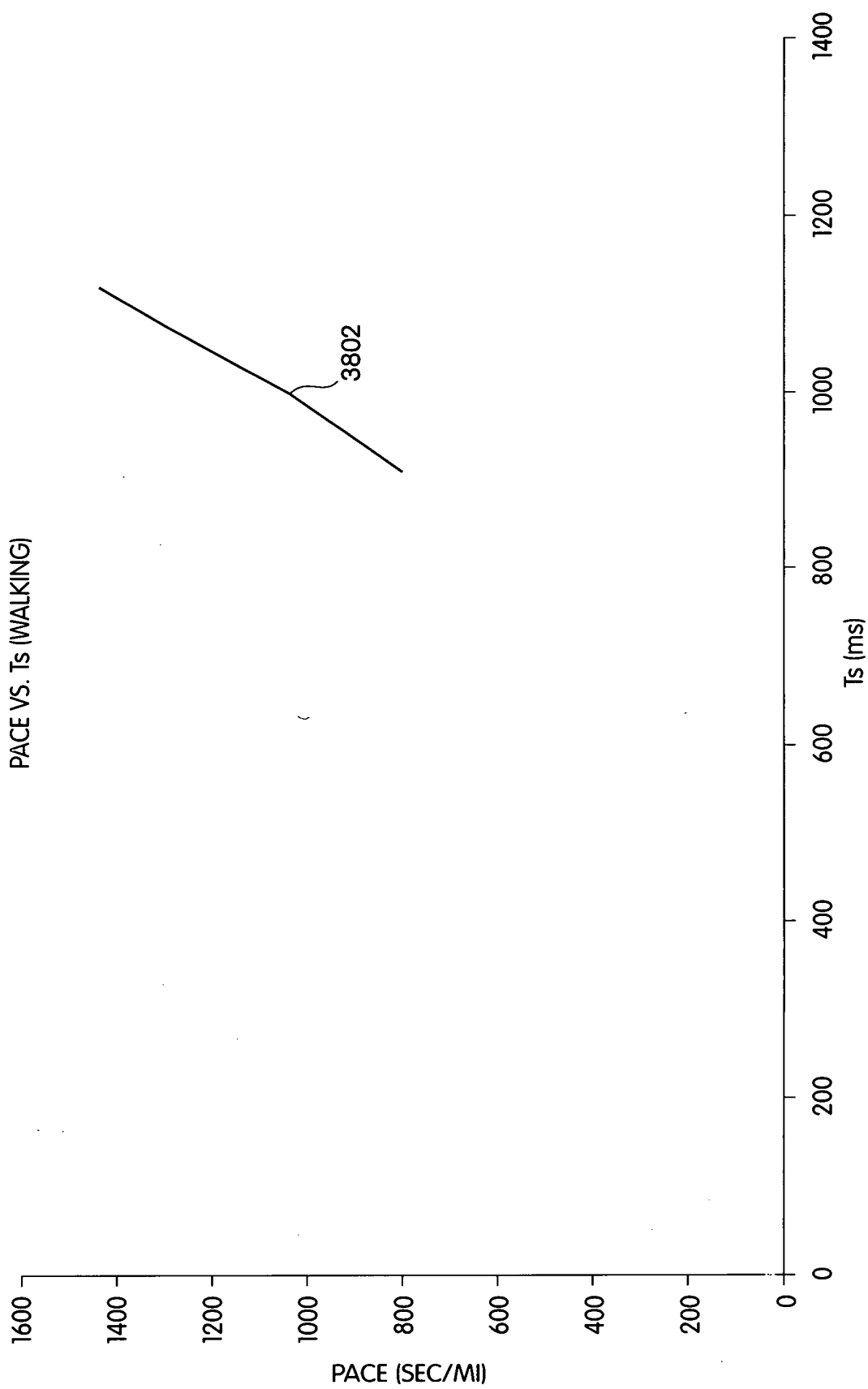


Fig. 38

APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Oct 23 1961

PATENT & TRADE

Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

40/42

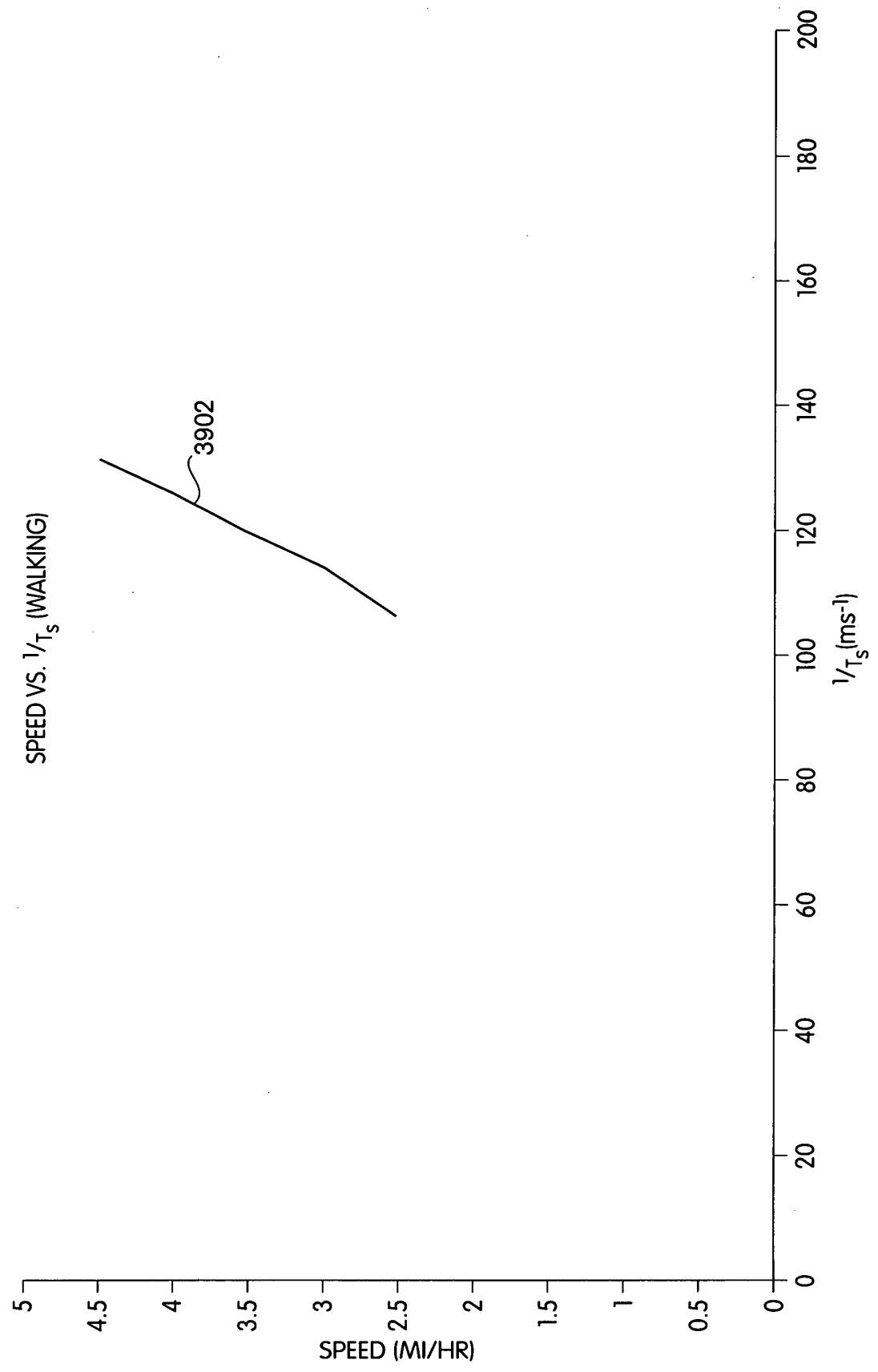
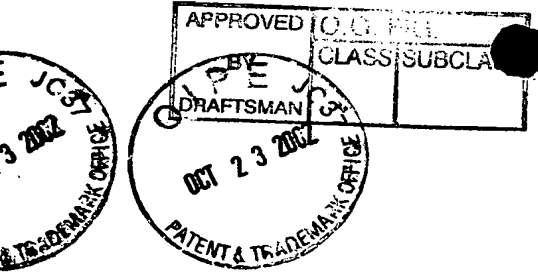


Fig. 39



Monitoring Activity of a User in
Locomotion on Foot; Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

41/42

SPEED (MPH)	PACE (SECONDS/MILE)	Tc (ms)	Ts (ms)	AVERAGE GROUND FORCE (LBS)	STEPS PER MILE	STRESS PER 1/10 MILE (LBS)	STEPS PER MINUTE	STRESS PER MINUTE (LBS)
5	720	302	730	181	986	17881	82	14901
6	600	270	702	195	855	16667	85	16667
7	514	254	676	200	760	15177	89	17717
8	450	234	652	209	690	14423	92	19231
9	400	214	638	224	627	14019	94	21028
10	360	204	618	227	583	13235	97	22059
11	327	190	600	237	545	12908	100	23684

Fig. 40



APPROVED	O. G. [redacted]	
BY	CLASS	SUBCL
TRAFTSMAN		

Not Available Copy
Monitoring of a User in
Locomotion on Darley; U.S.S.N.
09/642,865; Atty. Docket No.
P00663/70022

42/42

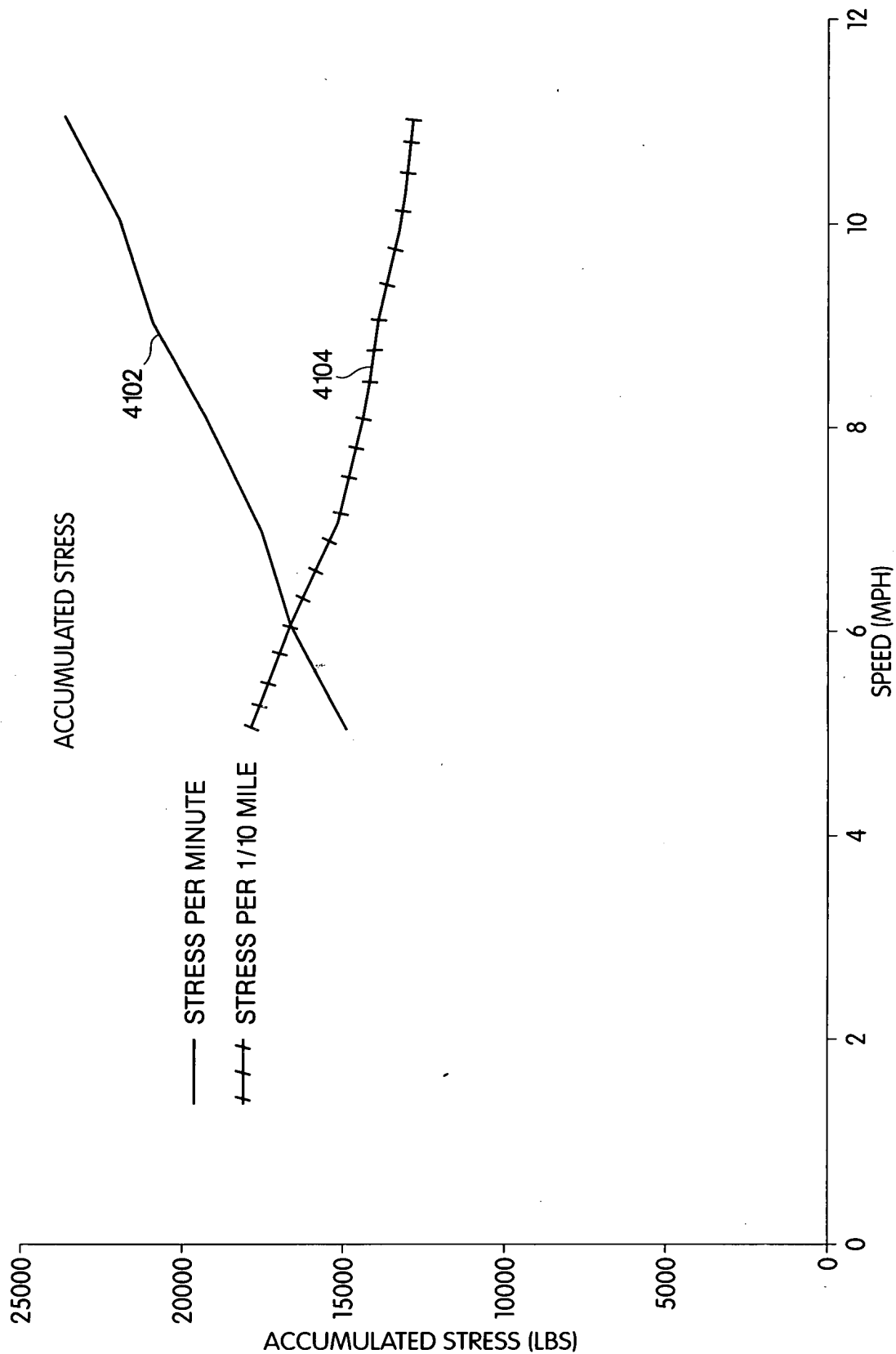


Fig. 41